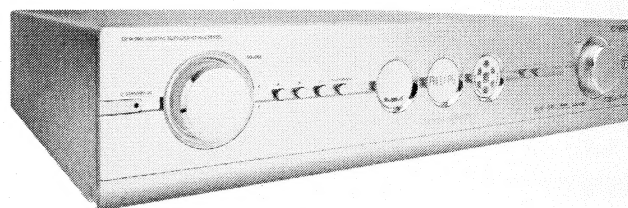


# Service Service Service



# Service Manual

## TABLE OF CONTENTS

Technical Specification .....	1-1	Exploded View .....	18-1
Connections & Controls .....	1-2	Partslist .....	18-2
Accessories .....	1-4	Revision list .....	18-2
Safety & Warnings .....	2-1		
Firmware Upgrade .....	2-2		
Service Test Program .....	2-3		
Standby-LED Blinking State .....	2-9		
Location of Printed Boards .....	3-1		
Dismantling .....	3-1		
Block & Wiring Diagram .....	3-2		
<b>Circuit Diagrams &amp; Printed Boards</b>			
Standby Power Supply .....	4-1		
Power Supply AC6750 .....	5-1		
Front Control .....	6-1		
Digital I/O .....	7-1		
Video Processing Board .....	8-1		
Video I/O .....	9-1		
Front Left .....	10-1		
Front I/O .....	11-1		
Front Keys .....	12-1		
Front Right .....	13-1		
Audio Signal Processing Board .....	14-1		
UCD Amplifier .....	15-1		
Speaker Terminal .....	16-1		
DAB Interface .....	17-1		

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Published by PW 0510 Service Audio Printed in The Netherlands Subject to modification  
Version 1.0

GB 3103 785 25290



# PHILIPS

## TECHNICAL SPECIFICATION

### General

Dimensions	: 435 x 100 x 370mm
Net weight	: 7.0kg
Power Supply /22S	: 230V $\pm$ 10%, 50Hz
Power consumption Standby	: $\leq$ 0.5W

### DAB Tuner

Tuning range	: 174-240MHz (Band III) 1452-1492MHz (L)
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### AM Tuner

Tuning range /22S	: 531-1602kHz, 9kHz grid
Tuning range /37	: 530-1700kHz, 10kHz grid
IF	: 450kHz
Sensitivity (26dB S/N)	: $\leq$ 3250 $\mu$ V/m (2000 $\mu$ V/m)
Distortion (rf=1mV, m=80%)	: $\leq$ 5% (4% typ.)

### FM Tuner

Tuning range /22S	: 87.5-108MHz, 50kHz grid
Tuning range /37	: 87.5-108MHz, 100kHz grid
IF	: 10.7MHz
Sensitivity (26dB S/N)	: $\leq$ 22dBf (15dBf typ.)
-3dB limiting point	: $\leq$ 23.5dBf (10dBf typ.)
Distortion (rf=1mV, m=80%)	: $\leq$ 3% (0.23% typ.)
Crosstalk (rf=1mV, $\Delta$ f=75kHz)	: $\leq$ -26dB (-48dB typ.)

### Video performance – Composite Video

Signal level	: 1Vpp (75 $\Omega$ )
Frequency response	: 0-6MHz
S/N ratio	: >50dB

### Video performance – S-Video

Signal level Y	: 1Vpp (75 $\Omega$ )
Signal level C	: 0.286Vpp (75 $\Omega$ )
Frequency response	: 0-6.5MHz
S/N ratio	: >65dB

### Video performance – Component Video / RGB

Signal level Y	: 1Vpp (75 $\Omega$ )
Signal level PB/CB, PR/CR	: 0.7Vpp (75 $\Omega$ )
Signal level R/G/B	: 0.7Vpp (75 $\Omega$ )
Frequency response	: 0-7MHz
Frequency resp. progressive	: 0-16MHz
S/N ratio	: >70dB

### Video input resolutions/formats

PAL 576i (720 x 576i)
PAL progressive 576p (720 x 576p, downscaled to 576i)
NTSC 480i (720 x 480i)
NTSC progressive 480p (720 x 480p, downscaled to 480i)

### Video output resolutions/formats

PAL input 50Hz (TV)	: 576i (720 x 576i) 576p (720 x 576p) 720p (1280 x 720p) 1080i (1920 x 1080i)
NTSC input 60Hz (TV)	: 480i (720 x 480i) 480p (720 x 480p) 720p (1280 x 720p) 1080i (1920 x 1080i)

### Digital video input/output

PAL input 50Hz (TV)	: 576i (720 x 576i) 576p (720 x 576p) 720p (1280 x 720p) 1080i (1920 x 1080i)
NTSC input 60Hz (TV)	: 480i (720 x 480i) 480p (720 x 480p) 720p (1280 x 720p) 1080i (1920 x 1080i)
PC input 60Hz	: VGA (640 x 480p) SVGA (800 x 600p) XGA (1024 x 768p) SXGA (1280 x 1024p)

### Audio Line-in

Input sensitivity	: 0.2-2.8Vrms
Input impedance	: 22k $\Omega$

### Audio Line/Rec Out

Output voltage	: 1.6Vrms
Output impedance	: 1k $\Omega$
Frequency response	: 5Hz-100kHz
S/N ratio	: 110dBA typ.
THD (1kHz, 1W)	: $\leq$ 0.0016%

### Power amplifier

Output power (1kHz, THD=1%)	: 2 x 110W RMS into 4 $\Omega$ 6 x 65W RMS into 4 $\Omega$
Frequency response (1W)	: 5Hz-45kHz
S/N ratio	: 105dBA typ.
THD (1kHz, 1W)	: $\leq$ 0.065%

### ADC/DAC

Resolution	: 24bits/96kHz
------------	----------------

### Digital In/Out

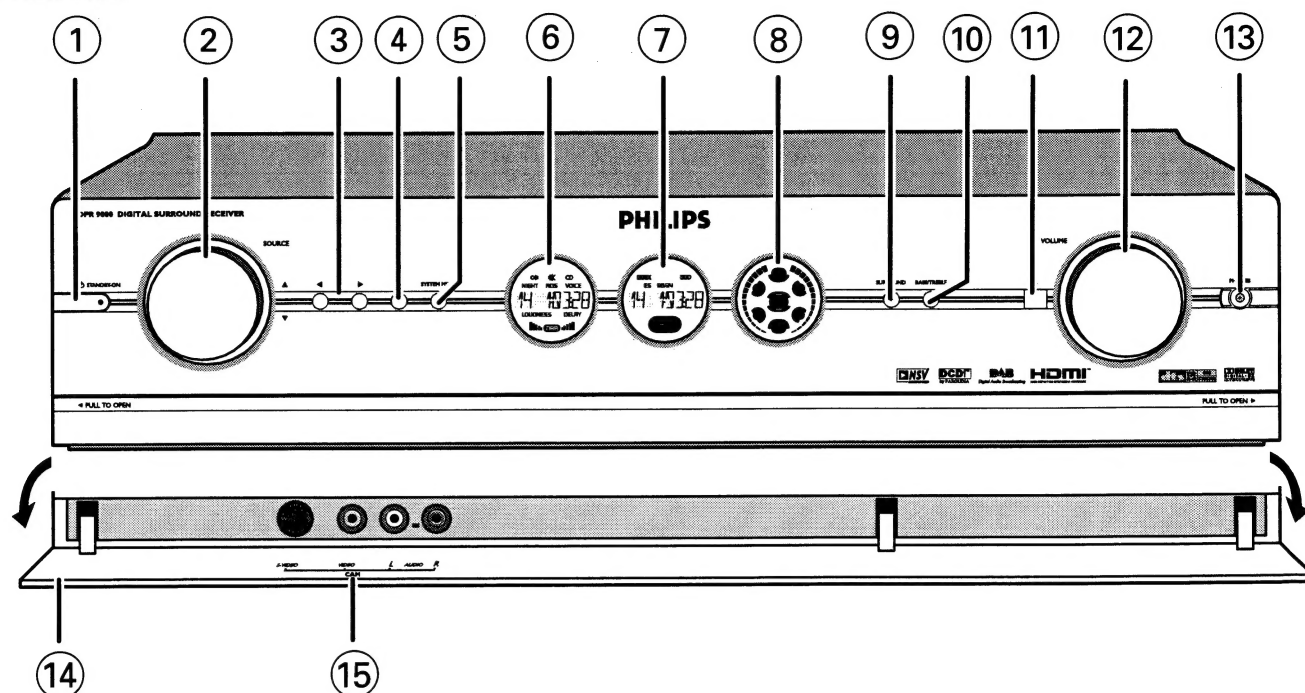
Coaxial input	: 0.2Vpp, 75 $\Omega$
Coaxial output	: 0.5Vpp, 75 $\Omega$

### Supported multichannel formats

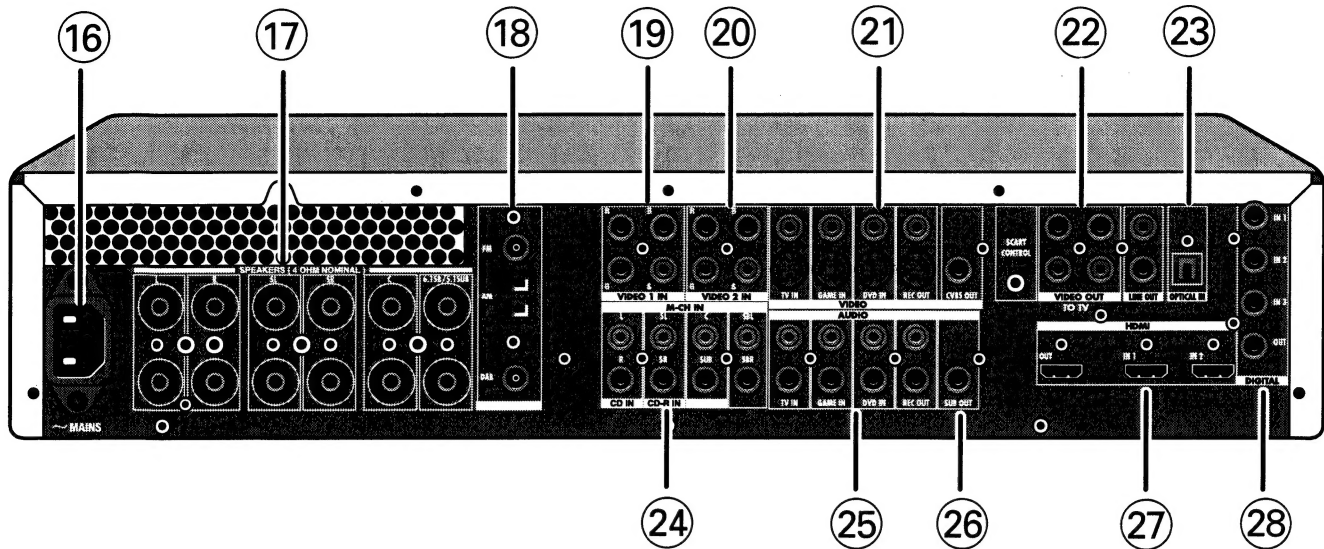
Dolby ProLogic IIx, Dolby Digital, Dolby Digital EX, DTS, DTS 96/24, DTS ES Matrix, DTS ES Discret, DTS NEO:6

## CONNECTIONS & CONTROLS

### Front View



Pos	Function	Remarks
1	STANDBY-ON	Switches the set on and to standby. Standby/On LED (indicator in the Power/standby button) lights up red when the set is switched off.
2	UP / DOWN	Selects the various connected sources in amplifier mode. - Navigates in up and down direction in the menu. - Selects previous and next broadcasting station in Tuner and DAB mode.
3	LEFT / RIGHT	- Navigates in left and right direction in the menu. - Selects previous and next preset station in Tuner and DAB mode.
4	OK	- Confirms action in the menu. - Selects secondary audio services in DAB mode.
5	SYSTEM MENU	Opens and closes the system menu.
6	Left display	- Indicates the present status of the set. - Indicates signal strength in DAB mode. - Indicates the present source.
7	Centre display	Informs on the present status of the set, selected surround modes and displays the system menu, sub menu's and menu settings.
8	Right display	- Shows what speakers are active. - Indicates volume level.
9	SURROUND	Selects the various available surround modes. Availability of surround modes depends on speaker setup and type of input signal.
10	BASS / TREBLE	Enables the VOLUME control to adjust the low (Bass) and high (Treble) frequency response for all channels.
11	IR	Receives the signals from the remote control.
12	VOLUME	Controls the output level of all audio channels.
13	PHONES	Outputs audio signals when listening with headphones.
14	Flap	Covers the audio and video input sockets on the front of the set.
15	CAM	Inputs audio and video signals from a portable external source, e.g. a video camera.

**Rear View**

Pos	Function	Remarks
16	MAINS	Mains inlet socket.
17	SPEAKERS (4 OHM NOMINAL)	Speaker connection panel for connecting: <b>L/R</b> - Left (L) and right (R) front speakers <b>SL/SR</b> - Surround left (SL) and surround right (SR) speakers <b>C</b> - Centre speaker <b>6.1SB/5.1SUB</b> - Surround back speaker to be connected in a 6.1 speaker configuration. In case no surround back speaker is connected (5.1 or less speaker configuration), these sockets can be used for connecting a passive subwoofer.
18	ANTENNA	FM-, AM- and DAB antenna connectors.
19	VIDEO 1 IN (R, G, B, S)	RGBS video input sockets for connection to the SCART connector of a DVD player/recorder, using the 6 cinch to Scart cable supplied. These sockets can be reassigned for connection to other video equipment.
20	VIDEO 2 IN (R, G, B, S)	RGBS video input sockets for connection to the SCART connector of a satellite receiver, using the 6 cinch to Scart cable supplied. These sockets can be reassigned for connection to other video equipment.
21	VIDEO	<b>TV IN / GAME IN / DVD IN</b> CVBS (upper down) and S-Video (lower row) video input sockets for connecting to the CVBS or S-Video output sockets of a TV, game console or DVD player/recorder. These sockets can be reassigned for connection to other video equipment. <b>REC OUT</b> CVBS (upper socket) and S-Video (lower socket) video output sockets for connecting to the CVBS or S-Video input sockets of a DVD recorder or VCR. <b>CVBS OUT</b> CVBS output socket for connection to a TV with a CVBS input socket.
22	VIDEO OUT LINE OUT	<b>TO TV</b> These output sockets are used for connecting the set to the Scart connector of the TV, using the 6 cinch + Scart control to Scart cable. <b>SCART CONTROL</b> For inserting the 2.5mm jack. When the set is activated, Scart control will automatically switch the TV to the correct (active) input source (provided that Scart connection has been made). The active source will be shown on the TV screen. <b>VIDEO OUT</b> RGBS output sockets for inserting the 4 video cinch connectors. These sockets can also be connected to the RGB input sockets of a TV. <b>LINE OUT</b> Audio output sockets for inserting the 2 audio cinch connectors.
23	OPTICAL IN	Audio input socket for connection to the digital (optical) audio output socket of a satellite receiver. This socket can be reassigned for connection to other video equipment (e.g. a CD player, DVD player or CD recorder).
24	M-CH IN	Audio input sockets for connection to the multichannel audio output sockets of multichannel equipment. These sockets are assigned for connection to a SACD player. If no multichannel equipment is available the L/R, SL/SR and C/SUB sockets can be reassigned for connection to analog audio equipment (CDIN, CD-R IN and AUX IN). The SBL/SBR sockets has no function when no multichannel equipment is connected.

Pos	Function	Remarks
25	AUDIO	<b>TV IN / GAME IN / DVD IN</b> Stereo audio input sockets for connection to the audio output sockets of a TV, game console or DVD player. In case one of these sockets is connected to a recording device, this socket needs to be selected in the 'Configuration' menu (sub menu 'Rec audio'). <b>AUDIO - REC OUT</b> Stereo audio output sockets for connecting to the audio input sockets of a DVD recorder or VCR.
26	SUB OUT	Output socket for connecting to an active subwoofer.
27	HDMI	<b>HDMI - OUT</b> Output socket for connection to a TV with a HDMI input socket. <b>HDMI - IN 1</b> Input sockets for connection to the output socket of a SACD player. <b>HDMI - IN 2</b> Input sockets for connection to the output socket of a HDMI source device. These sockets can be reassigned for connection to other HDMI equipment (e.g. a HDMI DVD player or a satellite receiver).
28	DIGITAL	<b>DIGITAL IN 1 / IN 2 / IN 3</b> Audio input sockets for connection to the digital (coaxial) output socket of digital playback/recording equipment. IN 1: DVD player/recorder IN 2: CD player/recorder IN 3: Any digital (coaxial) device These sockets can be reassigned for connection to other digital playback/recording equipment (e.g. a CD player/recorder, DVD player/recorder). <b>DIGITAL OUT</b> Output socket for connection to the digital input socket of a CD recorder. 1

## ACCESSORIES


Article	Codenummer	DFR9000/01
Mains Cord /00 (EUR)	2422 070 00005	X
Mains Cord /05 (UK)	2422 070 00007	X
Remote Control DVP900SA	3139 248 72131	X
DAB Antenna	3103 308 55941	X
AM Loop Antenna	2422 549 45386	X
Connecting Cable PAL	3103 140 25022	X
Cinch-Cable Audio 2x2, 1.5m, Gold	3103 308 94971	X
Cinch-Cable Audio 4x2, 1.5m, Gold	3103 308 94981	X (2x)
Cinch-Cable Digital-Out, 75R, 1m, Gold	3103 308 94961	X
SCART Adaptor 6xCinch+1xControl, 1.5m	2422 076 00635	X
SCART Adaptor 6xCinch, 1.5m	2422 076 00636	X

x...supplied with the set

## SAFETY & WARNINGS


(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Safety components are marked by the symbol 

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.


Les composants de sécurité sont marqués 

### SAFETY




(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Originalersatzteile zu verwenden.


Sicherheitsbauteile sind durch das Symbol  markiert.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast. De Veiligheidsonderdelen zijn aangeduid met het symbool 

(I)

Le norme di sicurezza estigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

Componenti di sicurezza sono marcati con 

### (GB) WARNING

All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wristband with resistance. Keep components and tools at this potential.

### ESD



### (F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilez le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

### (D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

Sorgen Sie dafür, daß Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.

Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

### (NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

### (I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)

After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists.

The leakage current must not exceed 0.5mA.

(F)

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

## ESD PROTECTION EQUIPMENT

### ESD3 KIT

- Anti-static table mat (600x650x1.25mm)
- Anti-static wristband
- Connection box (3 press stud connections, 1MΩ)
- Extendible cable (2m, 2MΩ, to connect wristband to connection box)
- Connecting cable (3m, 2MΩ, to connect table mat to connection box)
- Earch cable (1MΩ, to connect any product to table mat or to connection box)

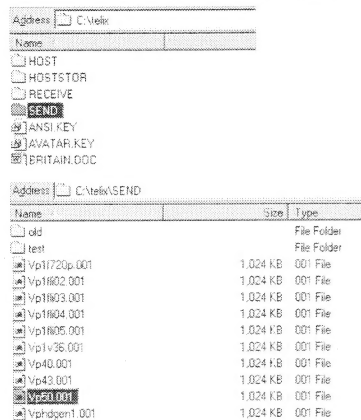
4822 310 10671

## FIRMWARE UPGRADE

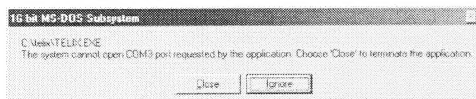
Occasionally, Philips will release new firmware for the microcontroller and Audio-DSP on the Video Processing Board. The binary firmware upgrade file(s) will be made available via the official service channels (i.e. symptom/cure system and/or customer care website).

To upgrade the firmware proceed as follows:

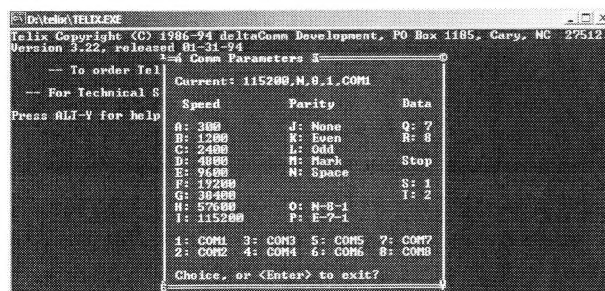
1. Download and install the communication application "Telix for DOS" (<http://www.telix.com/>).
2. Download the binary upgrade file and copy it to the "SEND" folder within the Telix-directory. Upgrade files have the extension ".001", e.g. "Vp50.001".



3. Connect the VPB board (connector 1009) with the power supply (power not switched on yet).  
Connect the VPB board via connector 1012 (white connector with 7 pins) with the Interface-Board (VPB-Interface).
4. Start "TELIX.EXE" (if a window with the following error message appears, just select "ignore").



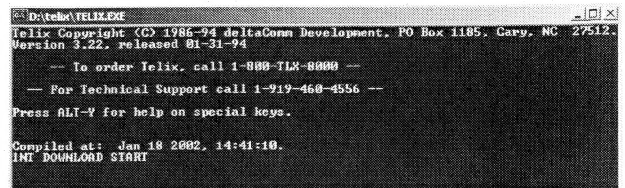
5. Press <Alt> + <p> to initialize the COM-port.  
Select Speed 115200 (press I) and the used COM-port (press number):



Press <Enter> to close the window.

6. Switch on the power supply and press the RESET-button on the interface-board (RESET = pin1 on VPB connector 1011).

In the Telix-window "INT DOWNLOAD START" appears:

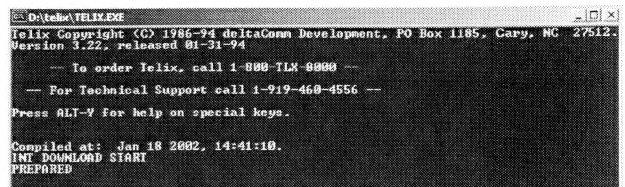


If this message doesn't appear, then there's something wrong with the communication.

7. Press the following keys in sequence:

<f> <p> <c> <Enter>

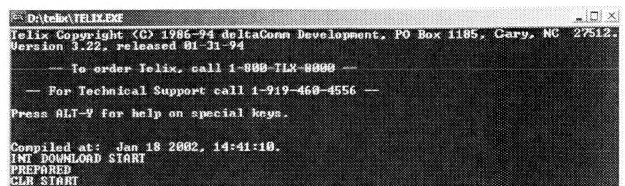
In the Telix-window "PREPARED" appears:



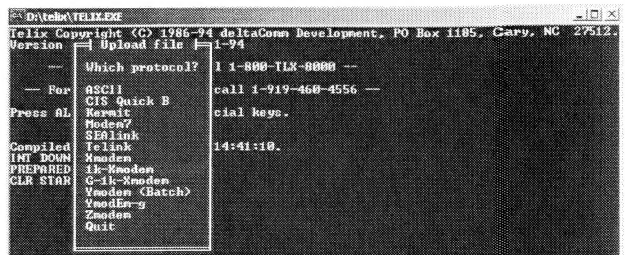
8. Press the following keys in sequence:

<f> <c> <f> <Enter>

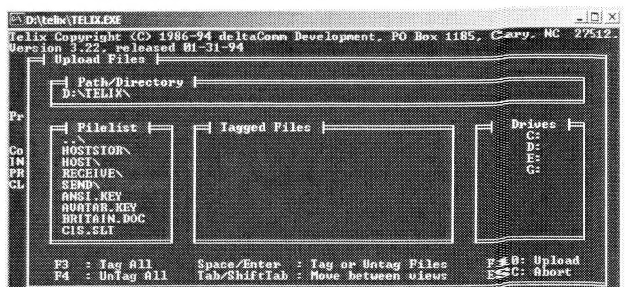
In the Telix-window "CLR START" appears:



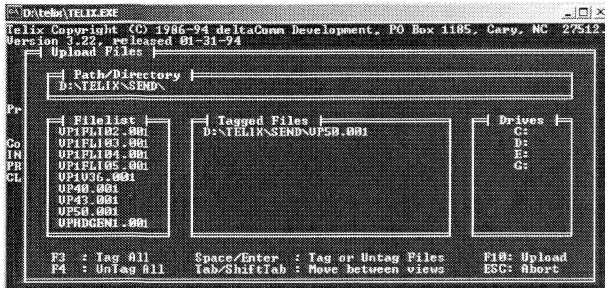
9. Press <Alt> + <s>, select "1k-Xmodem" in the pop-up-window (with cursor keys) and press <Enter>.



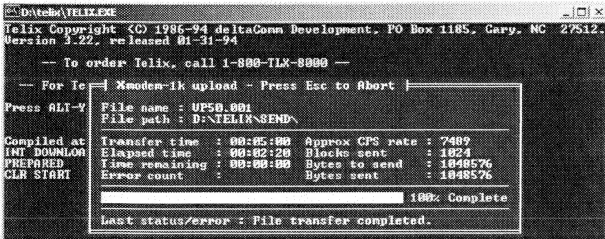
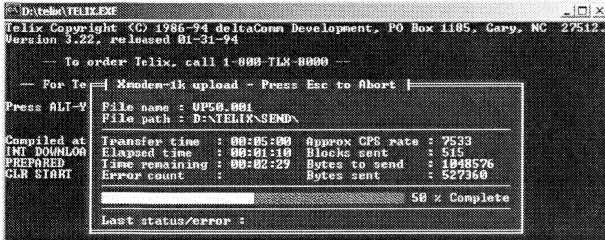
10. Press <Tab>, select directory "SEND" (with cursor down) and press <Enter>.



11. Now select the supplied firmware-file and press <Enter>.



12. Press <F10> and wait until the download has finished.



If the message "Telix Warning, upload was aborted" appears during download, check connections and restart at point 6.

13. To program another board, restart at point 6 or press <Alt> + <x> to close Telix.

## SERVICE TEST PROGRAM

The Digital A/V Receiver DFR9000 is equipped with comprehensive service & diagnostic features. The set internal service mode provides following test loops:

- EEPROM test
- EEPROM format
- Display test
- Key/RC/Rotary test
- I2C & SPI communication test
- DAB bit error rate test
- Audio switch test
- Video switch test
- Video test patterns
- Temperature & fan test

### 1. Entering the service mode

To enter the service mode hold the button <PREVIOUS> depressed while connecting mains.

The set will enter the **main menu** of the service mode and display the following message:

Left part of LCD	Middle part of LCD
L xx yy	mm dd.dd

L.....Country code (E=EU, U=US, O=OS)  
 xx.....Version of front processor firmware  
 yy.....Version of Video Processing Board firmware  
 mm.....Version of Audio-DSP firmware  
 dd.dd....Version of DAB tuner firmware

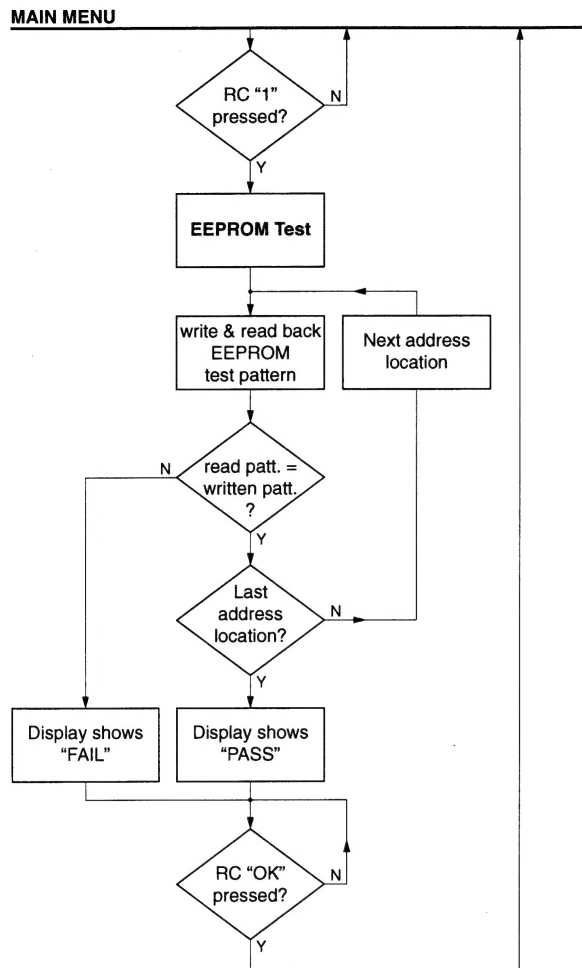
From the main menu various test loops can be executed by pressing dedicated keys (see table below).

Test loop	Key to enter
EEPROM test	RC 1
EEPROM format	RC 2
Display test	RC 3
Key/RC/Rotary test	RC 4
I2C & SPI communication test	RC 6 or SOUND
DAB bit error rate test	RC 7
Audio switch test	RC 8
Video switch test	RC 0
Video test patterns	RC 9 or SURROUND
Temperature & fan test	RC DISPLAY

To exit a certain test loop press <OK>.

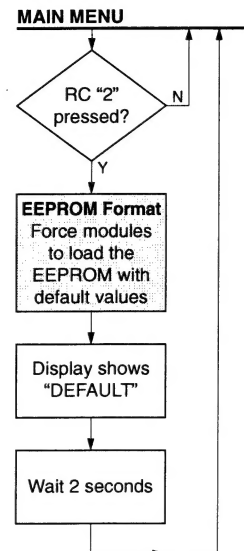
## 2. EEPROM test

Purpose: This test is used to check reading and writing of data from and to the EEPROM located on the front board.



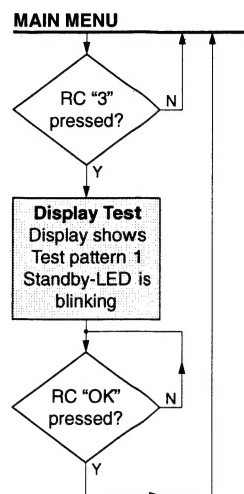
## 3. EEPROM format

Purpose: Format the EEPROM located on the front board (i.e. load the EEPROM with factory defaults).

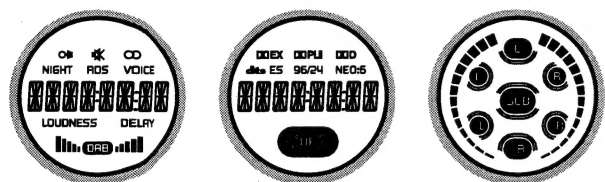


## 4. Display test

Purpose: This test is used to check the standby-LED, the driving circuits and the display for short-circuits, open circuits or other defects.

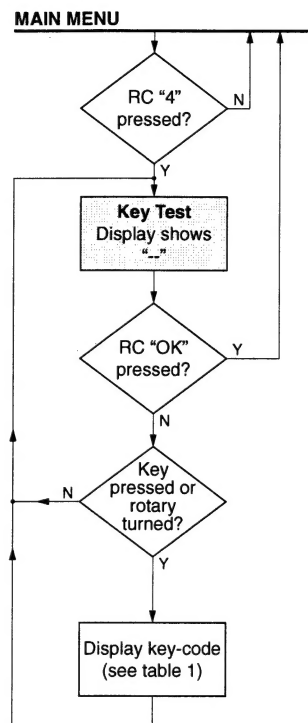


Display Test – Test pattern 1



## 5. Key test

Purpose: This test is used to check the keys and rotaries on the set and the reaction on commands from the remote control.

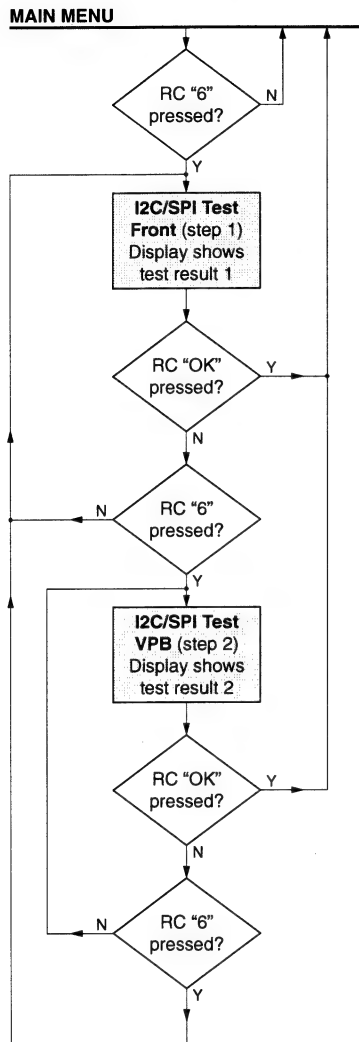


Key	Display
STANDBY-ON	KEY 1
PREVIOUS	KEY 2
NEXT	KEY 3
SYSTEM MENU	KEY 5
SURROUND	KEY 6
BASS/TREBLE	KEY 7
SOURCE UP	SRC UP
SOURCE DOWN	SRC DOWN
VOLUME UP	VOL UP
VOLUME DOWN	VOL DOWN
REMOTE CONTROL	KEY RCx yy zzz <sup>1)</sup>
Press <OK> on the set to exit the key-test.	

<sup>1)</sup> x .....5=RC5, 6=RC6  
 yy.....system address  
 zzz.....command code

## 6. I2C and SPI communication test

Purpose: This test checks communication with devices connected to the internal I2C and SPI bus.



Notes: I2C devices are tested by sending the slave address and looking for "ACK".

SPI devices are tested by sending certain settings and reading them back.

**Test result 1:** Display shows "F xxxx xxxxxxxx"  
 x="0" ....test/device failed  
 x="1" ....test/device passed  
 x="--" ....test not executed

The digits (read from left to right) have following meaning:

Digit	Device
1	IC1B (VOLUME S2L/S2R)
2	IC1B (VOLUME C/SUBW)
3	IC1B (VOLUME SL/SR)
4	IC1B (VOLUME L/R)
5	DAB MODULE
6	STV6618 (Video Switch)
7	CS42418 (CODEC)
8	VPB
9	CS4391 (DAC)
10	not used
11	not used
12	not used

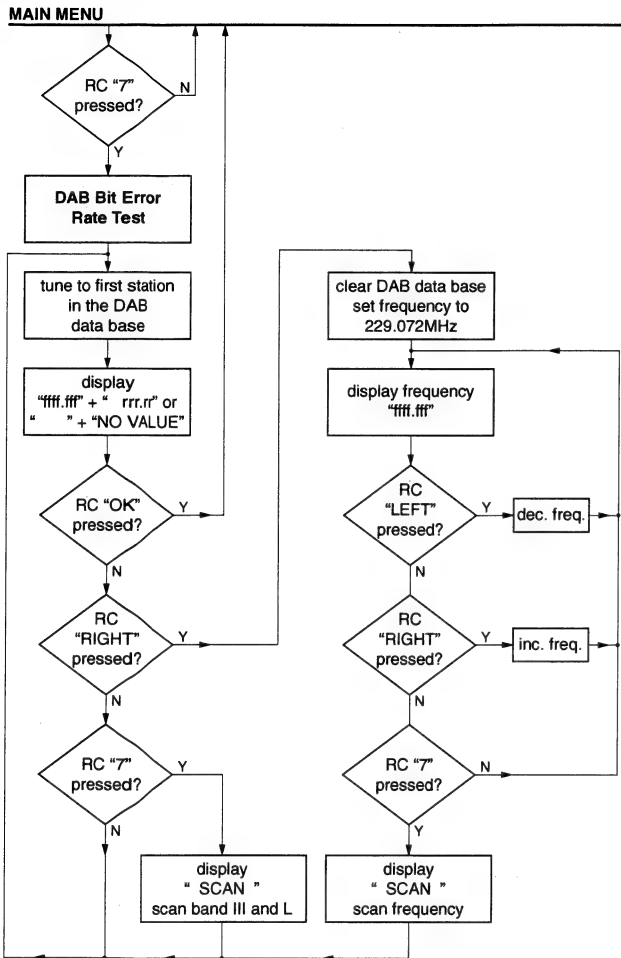
**Test result 2:** Display shows "V xxxx xxxxxxxx"  
 x="0" ....test/device failed  
 x="1" ....test/device passed  
 x="--" ....device not tested

The digits (read from left to right) have following meaning:

Digit	Device
1	VPB (TMP91CW12)
2	OSD (LC74732) - not tested
3	DSP (DSP56367)
4	SPDIF Rx (AK4112)
5	VIP
6	USER EEPROM
7	HDMI TRANSMITTER
8	HDMI RECEIVER
9	DENC
10	FAROUDJA
11	EDIT EEPROM 1
12	EDIT EEPROM 2

## 7. DAB bit error rate test

Purpose: Reads and displays the bit error rate of the DAB tuner.

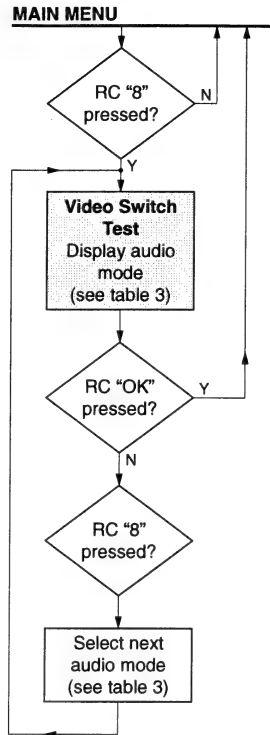


Notes: "rrr.rr" is the bit error rate in %.

"NO VALUE" is shown if no station is available. In this case connect antenna or the test signal and press the DAB ErrorBitRate button again. The module will scan band III and the L band for stations (about 2 minutes) and tune to the first station found. It is possible to set the DAB module to a defined center frequency. Press "RIGHT" on the RC and 229.072 MHz center frequency (228.304 till 229.840 with block name 12D) will be selected. Use "RIGHT" and "LEFT" to select another frequency. Press the DAB ErrorBitRate button to tune to the frequency.

## 7. Audio switch test

Purpose: Switches several audio modes according to the table below. System related limitations are ignored.



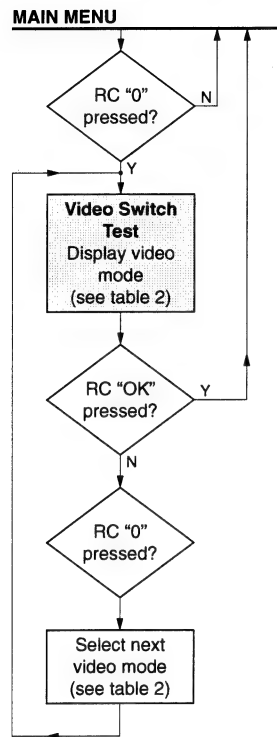
Audio mode	Description	Display
Multi channel	Link multi channel inputs to the loudspeaker without using the DSP; all amplifiers are enabled; all muting functions are disabled	M_CH IN
Analog1	Link the tuner to the output	TUNER IN
Analog2	Link TV in to the output	TV IN
Analog3	Link Front in	CAM IN
Analog4	Link DVD in	DVD IN
Analog5	Link Game in	GAME IN
ADC test	Link Game in but use the DSP (ADC-DAC)	ADC IN
Test tone generator L	Use test tone generator on the VPB with 440Hz	LEFT
Test tone generator C	Use test tone generator on the VPB with 440Hz	CENTER
Test tone generator R	Use test tone generator on the VPB with 440Hz	RIGHT
Test tone generator SR	Use test tone generator on the VPB with 440Hz	REAR R
Test tone generator SL	Use test tone generator on the VPB with 440Hz	REAR L
Test tone generator SUBW	Use test tone generator on the VPB with 440Hz	SUBW
Test tone generator L downmix	Use test tone generator on the VPB with 440Hz	DOWN L
Test tone generator R downmix	Use test tone generator on the VPB with 440Hz	DOWN R
Coax1	Use digital in, decode if DD or DTS and transfer to the loudspeaker	COAX1 IN
Coax2	Use digital in	COAX2 IN
Coax3	Use digital in	COAX3 IN
Optical	Use digital in	OPT IN
	Start again with first item	

Notes: All DAC/CODEC outputs are routed to amplifiers/line out sockets. If connecting ADC data output to all data inputs of CODEC/DAC in parallel, input signal to ADC will show on all outputs.

The test starts with -30dB as volume setting. VOLUME (at least rotary) will work setting the volume level. BASS/TREBLE will be 0dB (not changeable). The routing will be influenced by HP connect (HP out instead of LS). Line out and record out is always active (L+R).

## 8. Video switch test

Purpose: Switches several video modes according to the table below. System related limitations are ignored.

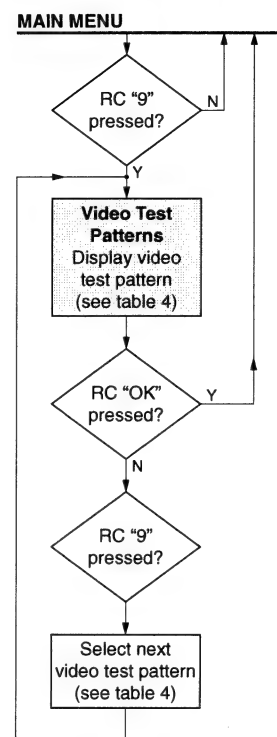


Video mode	Description	Display
CAM CVBS in (front)	CVBS from front Pin 8 = LOW, Pin 16 = LOW	CAM CV
TV CVBS in	CVBS from rear 1 Pin 8 = HIGH, Pin 16 = LOW	TV CV
GAME CVBS in	CVBS from rear 2 Pin 8 = HIGH, Pin 16 = LOW	GAME CV
DVD-RW CVBS in	CVBS from rear 3 Pin 8 = HIGH, Pin 16 = LOW	DVDRW CV
CAM S-Video in (front)	CVBS from front Read offset (SCRF) Write SCRF to pin 8 and S-Video, Pin 16 = LOW	CAM SV
TV S-Video in	S-Video from rear 1 Read offset (SCRF) Write SCRF to pin 8 and S-Video, Pin 16 = LOW	TV SV
GAME S-Video in	S-Video from rear 2 Read offset (SCRF) Write SCRF to pin 8 and S-Video, Pin 16 = LOW	GAME SV
DVD-RW S-Video in	S-Video from rear 3 Read offset (SCRF) Write SCRF to pin 8 and S-Video, Pin 16 = LOW	DVDRW SV
YUVCV-in4	YUV+CVBS in read Pin 16 = HIGH, Pin 8 = HIGH	VIDEO 1
YUVCV-in5	YUV+CVBS in read Pin 16 = HIGH, Pin 8 = MID	VIDEO 2
	Start again with first item	

Note: Video signal is shown on the video outputs without any enhancement.

## 9. Video test patterns

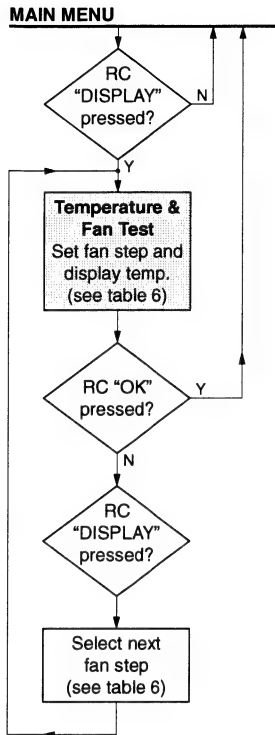
Purpose: Activates video test patterns of the following ICs in sequential order: Denc → Faroudja → VIP → OSD → HDMI receiver → HDMI transmitter



Picture	Source	Description	Display
Color bar	Denc	Checks DENC and VIP clock generation	DENC 1
Color bar	Faroudja	Checks Faroudja, DENC and VIP clock generation	FAR 1
Blue screen	VIP	Checks VIP and DENC on CVBS and S-Video	VIP 1
Message screen	OSD	Checks OSD, VIP and DENC on CVBS and S-Video	OSD 1
Message screen	Faroudja	Full loop through checks OSD - VIP - DENC and Faroudja - HDMI TX - HDMI RX	LOOP 1
Message screen	Faroudja	Full loop through checks OSD - VIP - DENC and Faroudja - HDMI TX - HDMI RX	LOOP 2
		Start again with first item	

## 10. Temperature & fan test

Purpose: This test measures the temperature inside the set and switches the fan speed for both fans in parallel.



Test step	Display left LCD part	Display right LCD part
Temp & fan off	Temperature in °C	OFF
Fan current	Temperature in °C	TURNING or FAN FAIL
Fan full	Temperature in °C	SPEED 3
Fan > half	Temperature in °C	SPEED 2
Fan < half	Temperature in °C	SPEED 1
Fan low	Temperature in °C	SPEED 0

Note: "FAN FAIL" indicates fan current out of range.

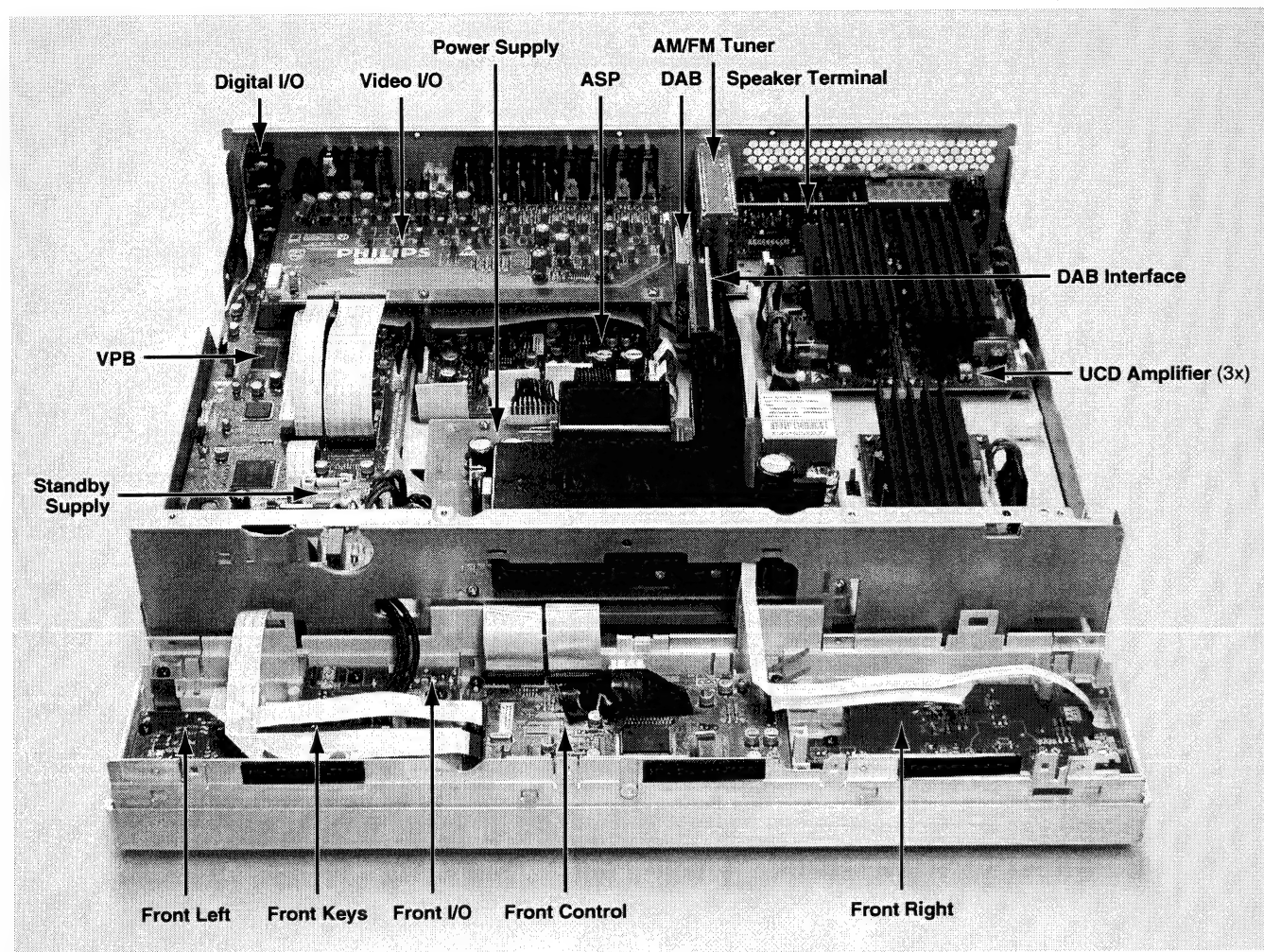
## Standby-LED Blinking State

When the set is in standby mode and the Standby-LED is blinking, the internal protection circuits have detected a serious problem and the set won't wake up anymore.

Errors are reported via the "ERR\_FLAG" line, which can be triggered from following circuitries:

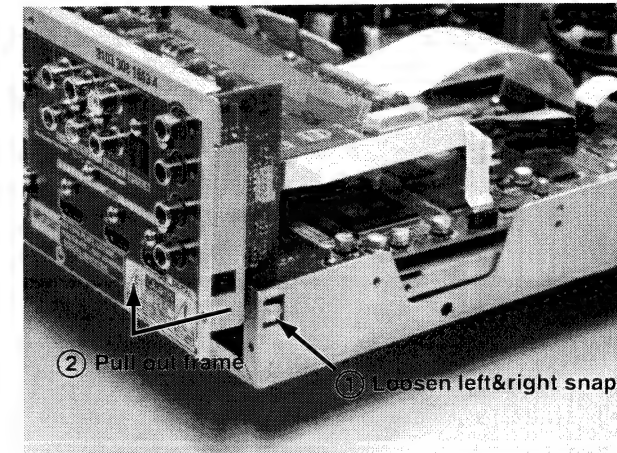
- **DC protection** on UCD Amplifiers  
(see **UCD 2**, components around transistor 7212)  
→ Most likely, one of the UCD Amplifiers is defective and must be replaced.
- **Overvoltage protection** for +5V and +12V on ASP Board  
(see **ASP Board 1**, components around transistor 7604)  
→ Most likely, Power Supply AC6750 is defective and must be replaced.

## LOCATION OF PRINTED BOARDS



## DISMANTLING

- Remove top cover (2 screws on the left, 2 screws on the right, 5 screws on the rear)
- Remove front (4 screws on top, 4 screws on bottom)
- Remove air channel (4 screws in corners)
- Remove safety cover
- Loosen frame screws (2 screws on the left, 2 screws on the right, 3 screws on the rear, 1 screw on the bottom)
- Loosen snaps and pull out frame as shown below



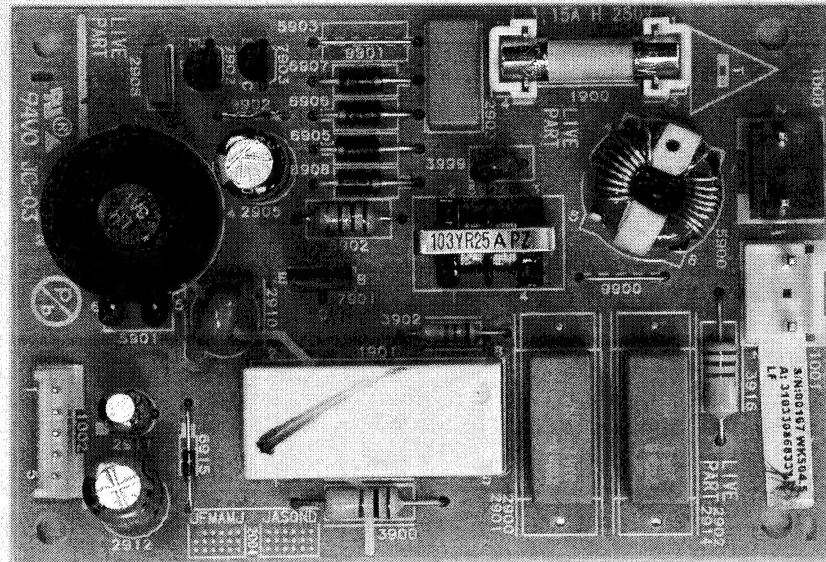
The diagram illustrates the architecture of a Hi-Fi system, showing the interconnection of various components. The components are organized into several main boards:

- VIDEO I/O BOARD:** Includes VIDEO SW STV6618, CVBS SW NJM2286, FRONT IN SW NJM2285, C\_DC LEVEL SW HEF4051, and various input/output connectors (DIG IN 4 OPT, LINE OUT, Y/Pb/Pr CVBS OUT, SCART CTRL, CVBS OUT, S-VID CVBS REC OUT, S-VID DVD IN, S-VID TV IN, S-VID GAME IN, Y/Pb/Pr CVBS IN 2, Y/Pb/Pr CVBS IN 1).
- VIDEO PROCESSING BOARD:** Includes HDMI TX SiI9030, HDMI RX SiI9031, CPU 16Bit TMP91CW12, RAM, E2PROM, DENC ADV7320, VIP SAA7119, SDRAM, FAROUDJA FLI2310, OSD LC74732W, DC/DC -5V, SPDIF MUX & Buffer, DC/DC 3V3.
- AUDIO SIGNAL PROCESSING BOARD:** Includes AUDIO DSP 56367, 3xRAM 128k x8, SPDIF RX AK4112, 1.8V SUPPLY.
- AUDIO I/O BOARD:** Includes ASP 8 CHANNEL 4x TDA7468 L/R, SL/SR, LFE/C, SC, ADC 2CH, DAC 8CH, DAC 2CH CS4391, DC/DC -12V.
- AM&FM TUNER:** Includes AE, AM, FM.
- SPEAKER TERMINAL BOARD:** Includes FL, FR, SL, SR, CF, CR.
- UCD AMP:** Includes MAIN, SURR, CENTER.
- POWER SUPPLY BOARD AC6750:** Includes various power supply components.
- FRONT CONTROL BOARD:** Includes CPU TMP88CU77, RDS SAA6581, and various input/output connectors.
- FRONT I/O:** Includes AUDIO L/R, CVBS IN, S-VIDEO IN.
- FRONT LEFT, FRONT RIGHT, FRONT KEYS:** Includes various input/output connectors.
- STANDBY SUPPLY BOARD:** Includes various power supply components.

The diagram also includes a legend for connector types and a list of components for each board.

**LEGEND:**

- FFC TOP ENTRY 1.25
- FFC SIDE ENTRY 1.25
- EH TOP ENTRY
- EH SIDE ENTRY
- PH TOP ENTRY
- PH SIDE ENTRY
- FFC TOP ENTRY 1.0
- FFC SIDE ENTRY 1.0
- SPECIAL



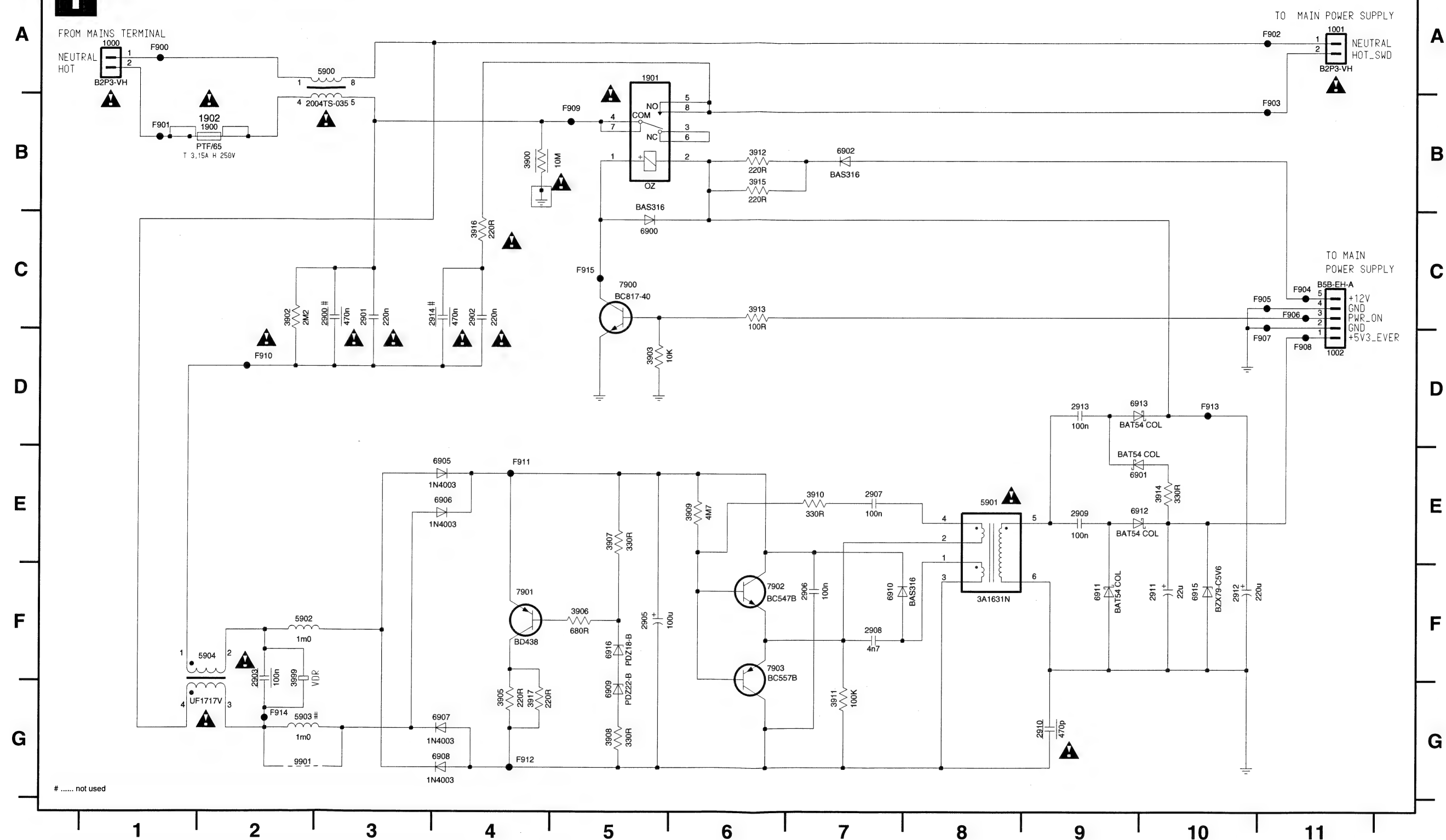
# Standby Power Supply

**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

**In case of defects please replace the entire board.**

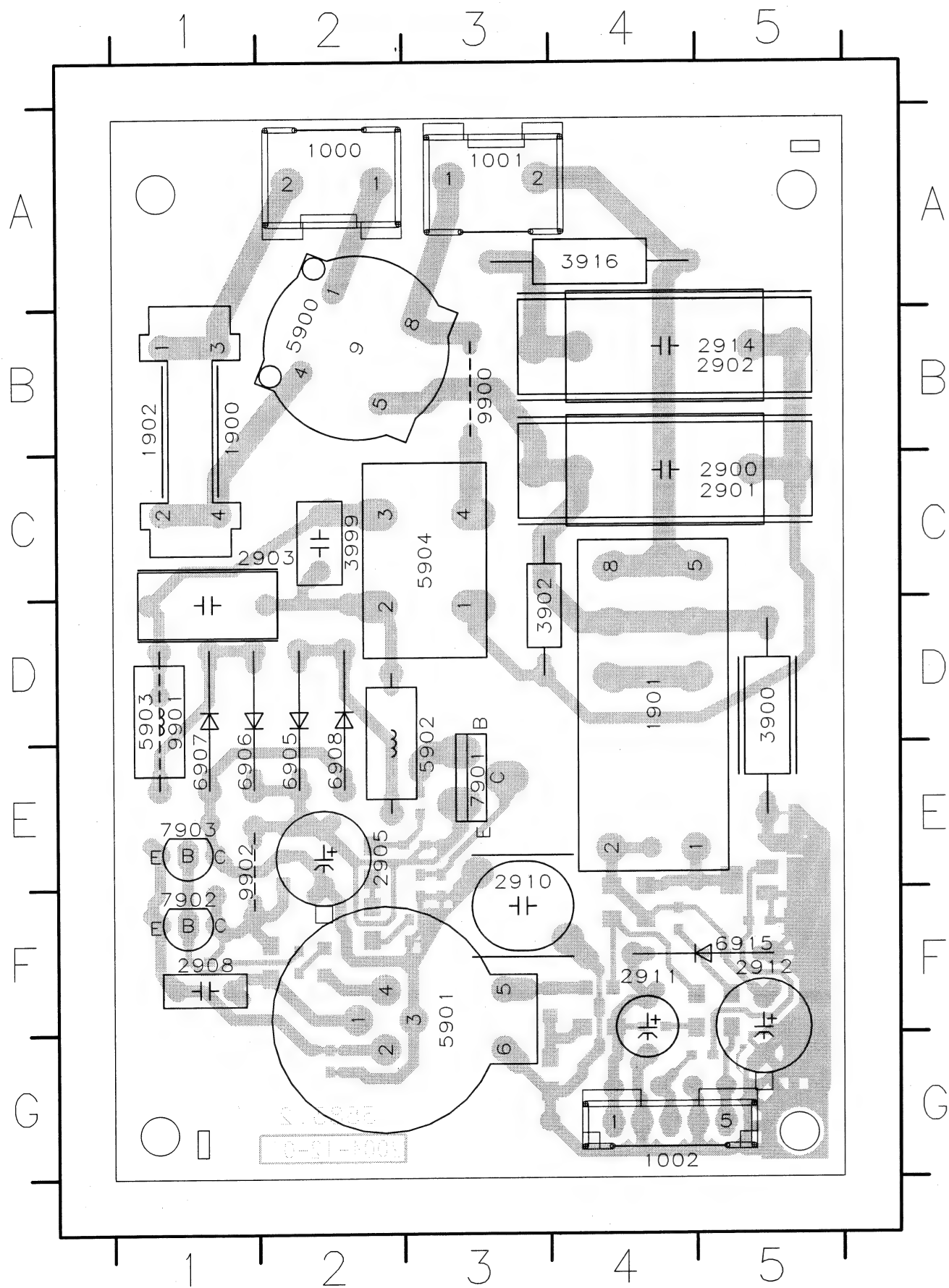
**Boards can be ordered with codenumber "3103 308 68331".**

## 1 STANDBY POWER SUPPLY

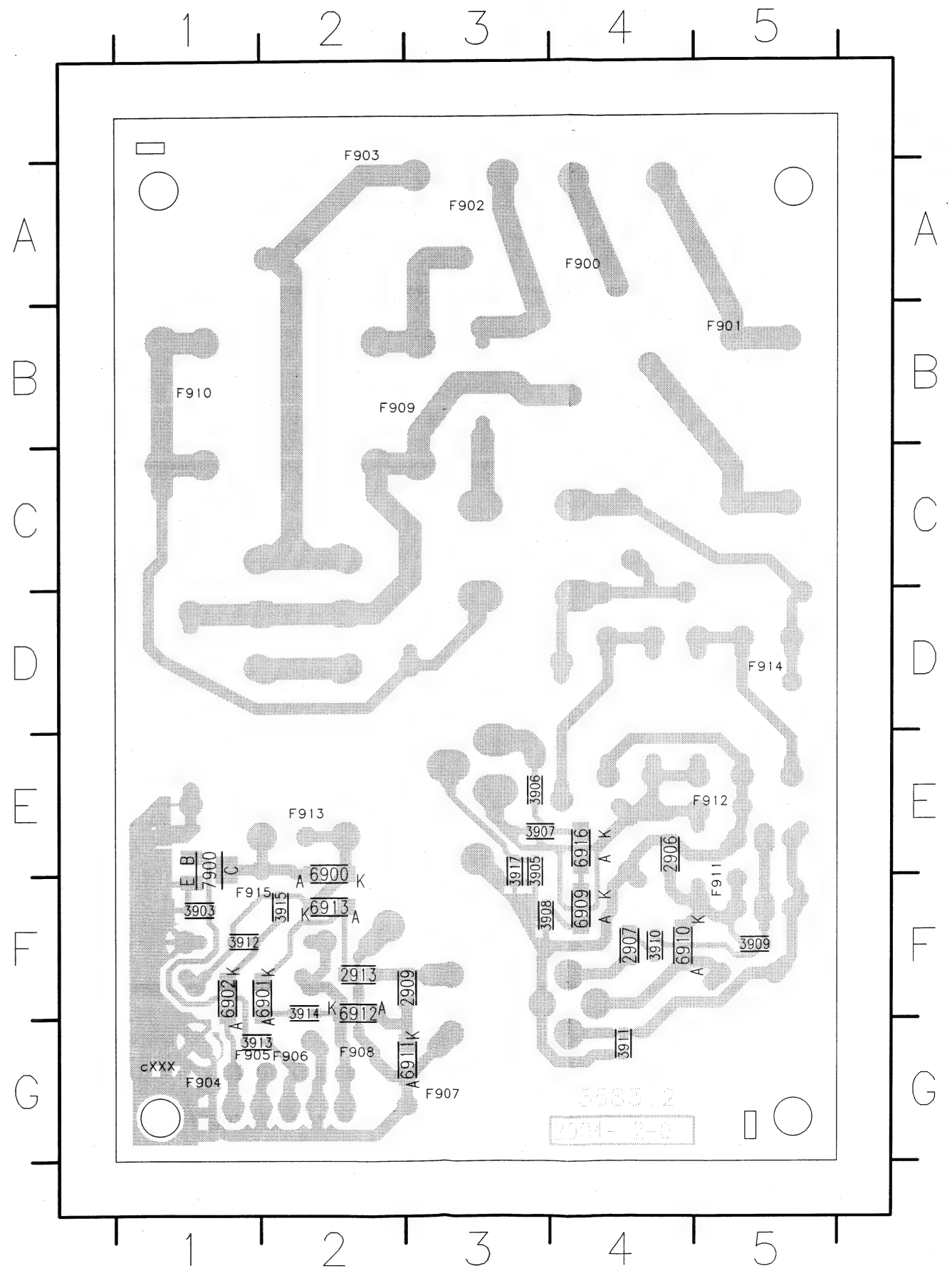


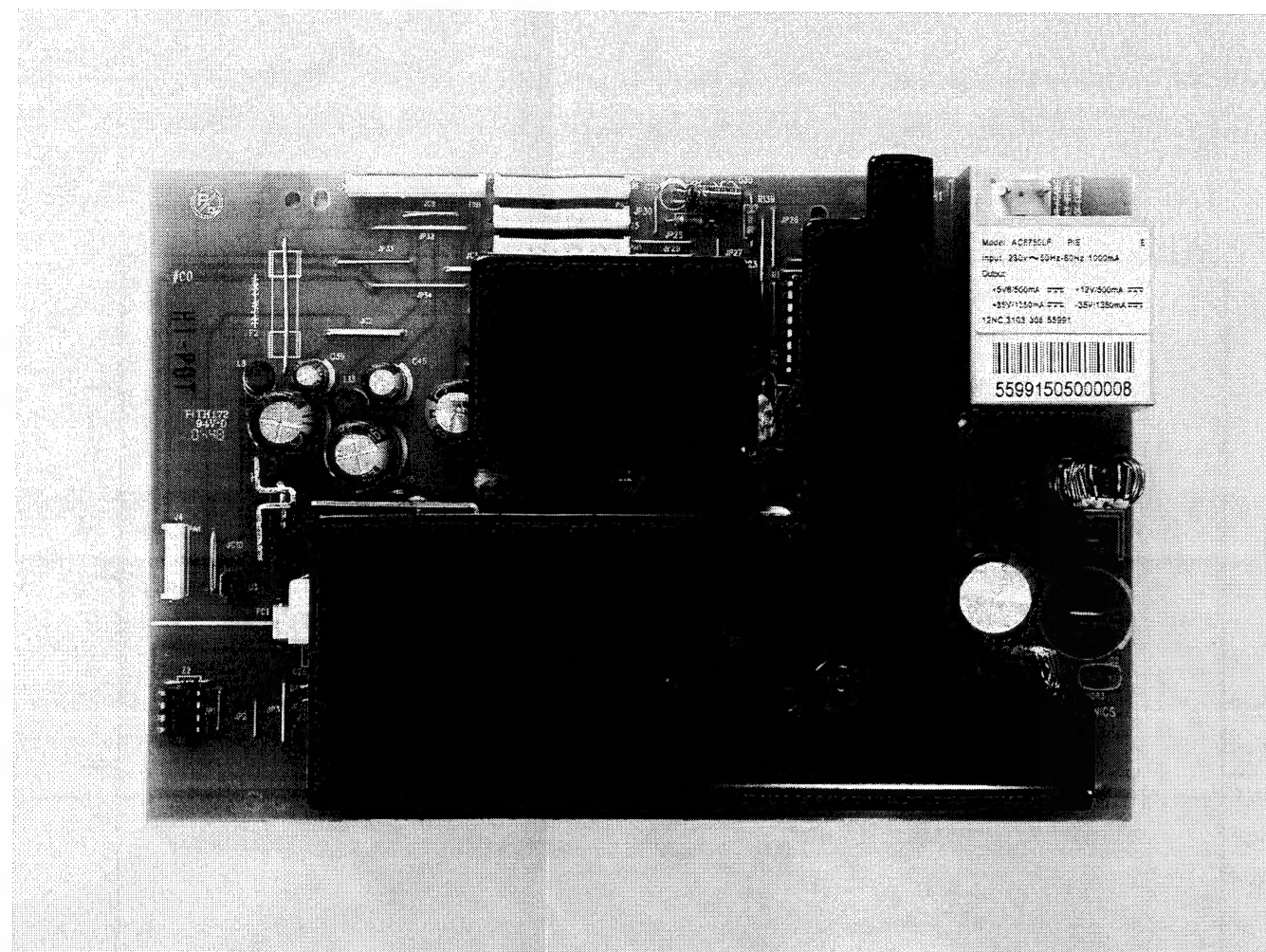
1000 A1  
1001 A11  
1002 D11  
1900 B2  
1901 A5  
1902 B2  
2900 C3  
2901 C3  
2902 C4  
2903 F2  
2905 F5  
2906 F7  
2907 E7  
2908 F7  
2909 E9  
2910 G9  
2911 F10  
2912 F10  
2913 D9  
2914 C4  
3900 B4  
3902 C2  
3903 D5  
3905 G4  
3906 F5  
3907 E5  
3908 G5  
3909 E6  
3910 E7  
3911 G7  
3912 B6  
3913 C6  
3914 E10  
3915 B6  
3916 C4  
3917 G4  
3999 F2  
5900 A3  
5901 E8  
5902 F2  
5903 G2  
5904 F2  
6900 C5  
6901 E9  
6902 B7  
6905 E4  
6906 E4  
6907 G4  
6908 G4  
6909 G5  
6910 F7  
6911 F9  
6912 E9  
6913 D9  
6915 F10  
6916 F5  
7900 C5  
7901 F4  
7902 F6  
7903 F6  
9901 G2  
F900 A1  
F901 B1  
F902 A11  
F903 B11  
F904 C11  
F905 C11  
F906 C11  
F907 D11  
F908 D11  
F909 B5  
F910 D2  
F911 E4  
F912 G4  
F913 D10  
F914 G2  
F915 C5

10000	A2	22999	C	22999	3	59999	A4	59999	3	79999	1	39999	3
10001	A3	22999	C	22999	3	59999	A4	59999	3	79999	1	39999	3
10002	A4	22999	C	22999	3	59999	A4	59999	3	79999	1	39999	3
19000	B1	22999	C	22999	3	59999	A4	59999	3	79999	1	39999	3
19001	B2	22999	C	22999	3	59999	A4	59999	3	79999	1	39999	3
19002	B3	22999	C	22999	3	59999	A4	59999	3	79999	1	39999	3



29906	F4	39906	F3	39907	F3	39913	G1	69902	F1	6916	E4
29907	F4	39907	F3	39908	F3	39914	G1	69903	F1	7900	E1
29908	F4	39908	F3	39909	F3	39915	G1	69904	F1		
29909	F4	39909	F3	39910	F3	39916	G1	69905	F1		
39903	F1	39903	F1	39911	F1	69900	F1	69906	F1		
39905	E3	39905	E3	39912	F1	69901	F1	69907	F1		



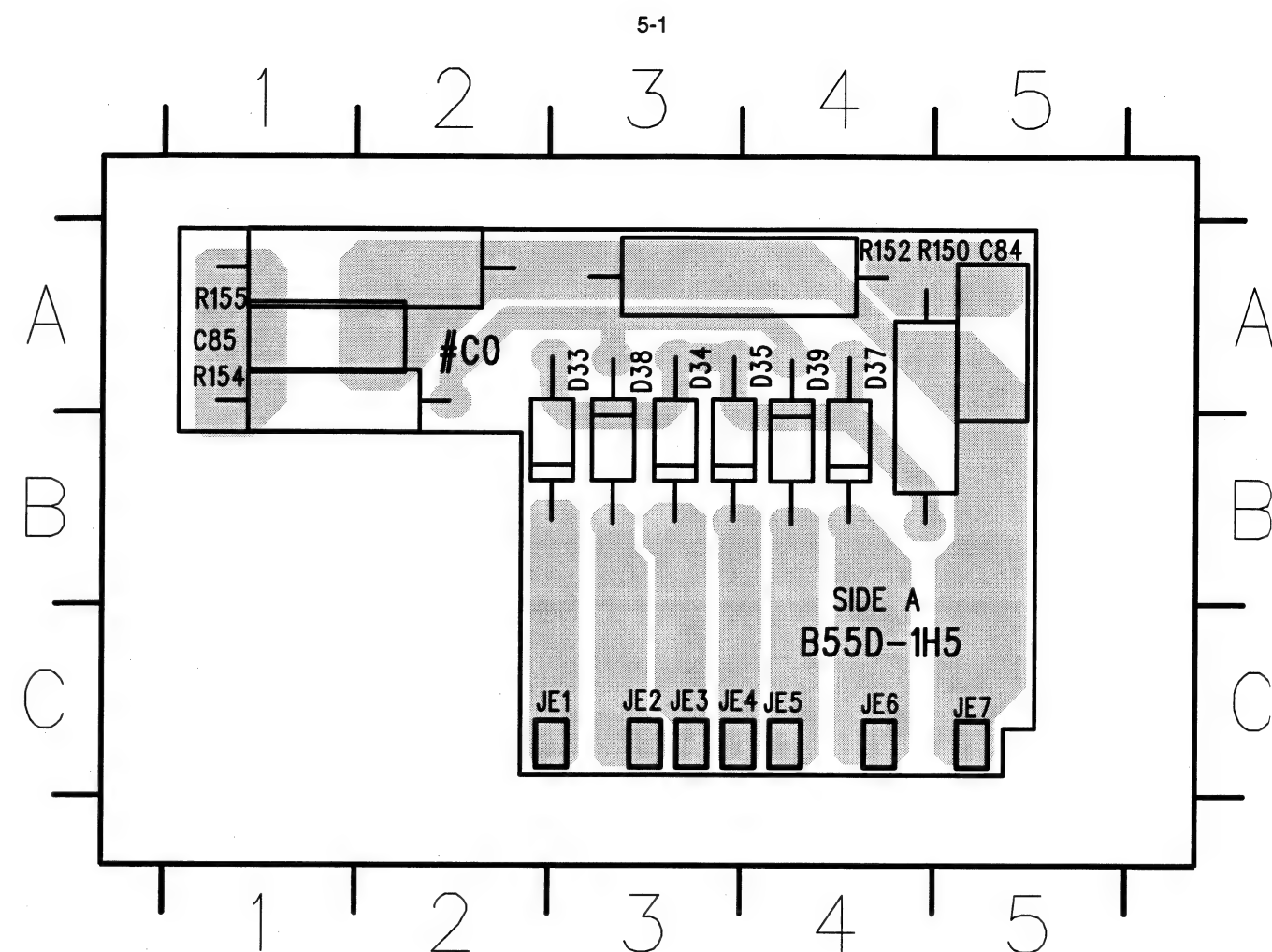


## Power Supply AC6750

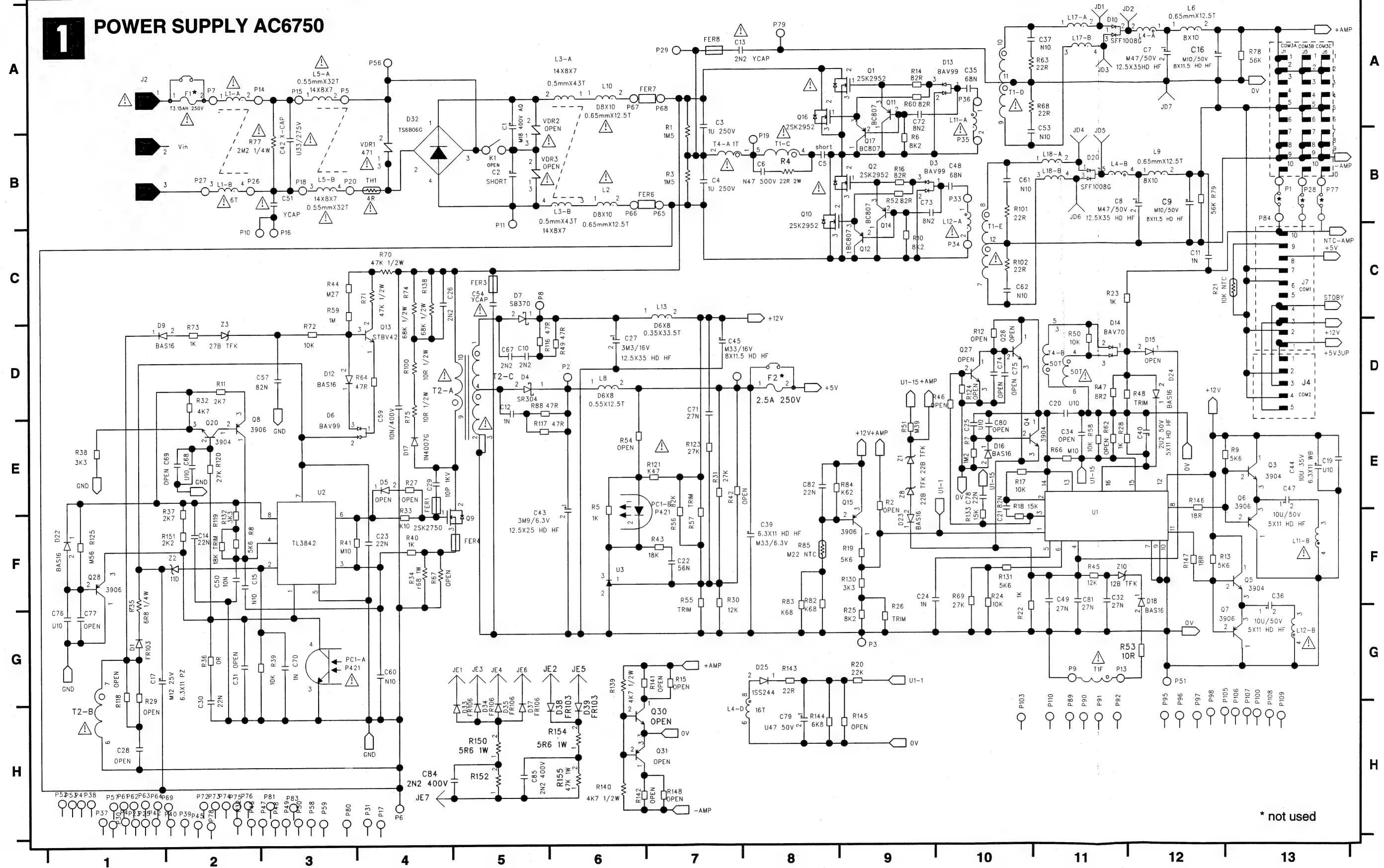
**This board is not intended to be repaired on component level.  
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**In case of defects please replace the entire board.**

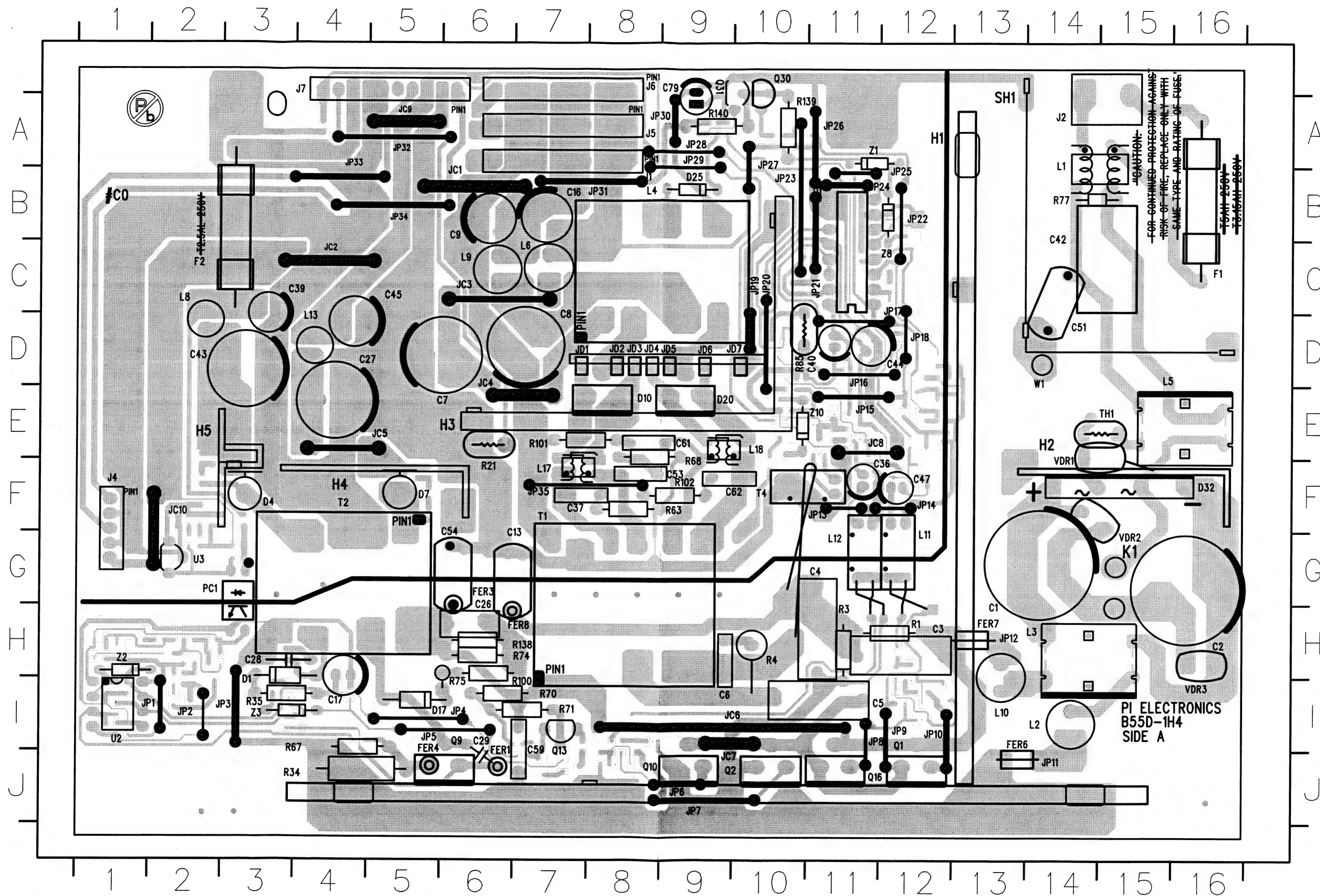
**Boards can be ordered with codenumber "3103 308 55991".**

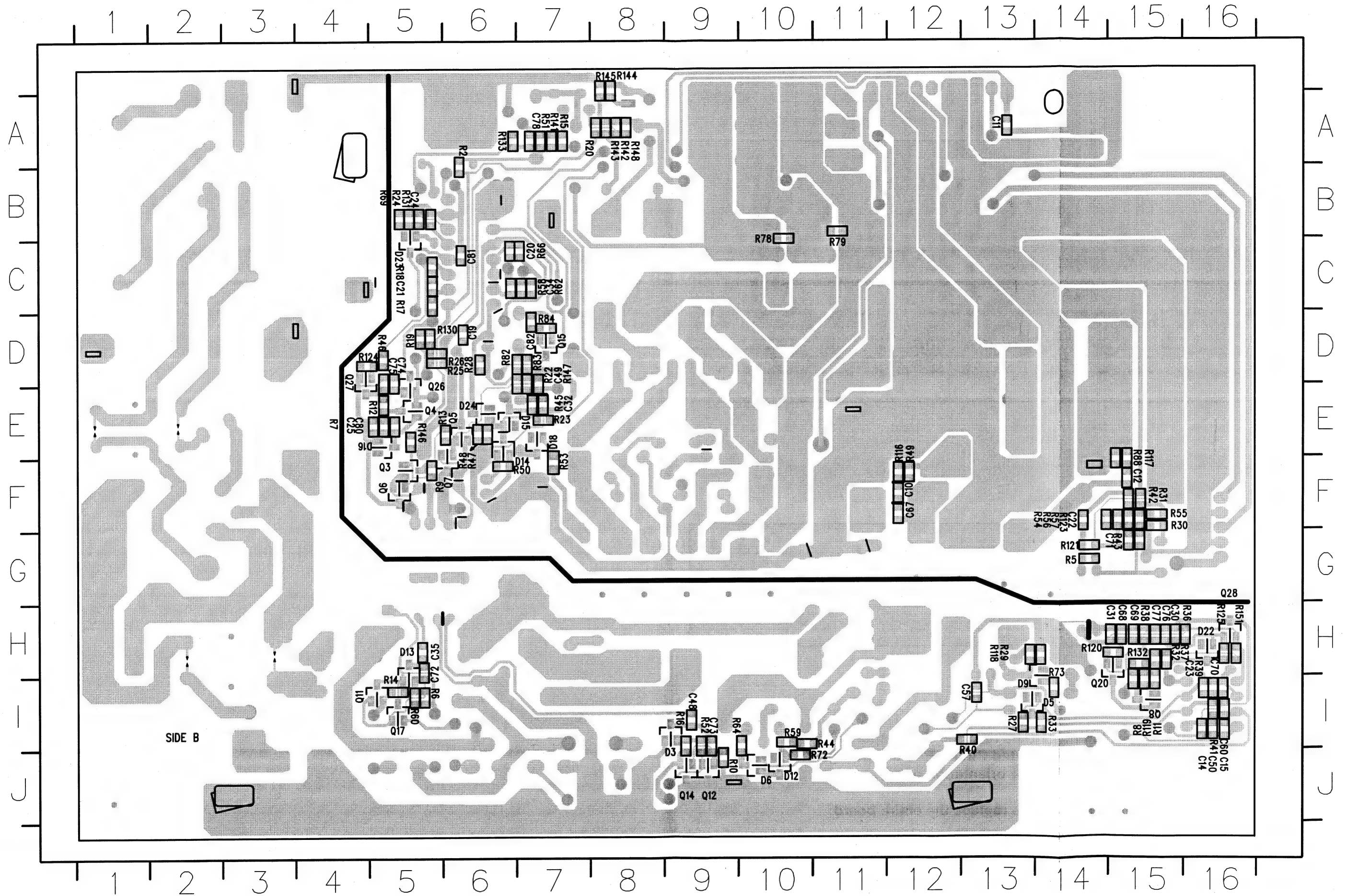


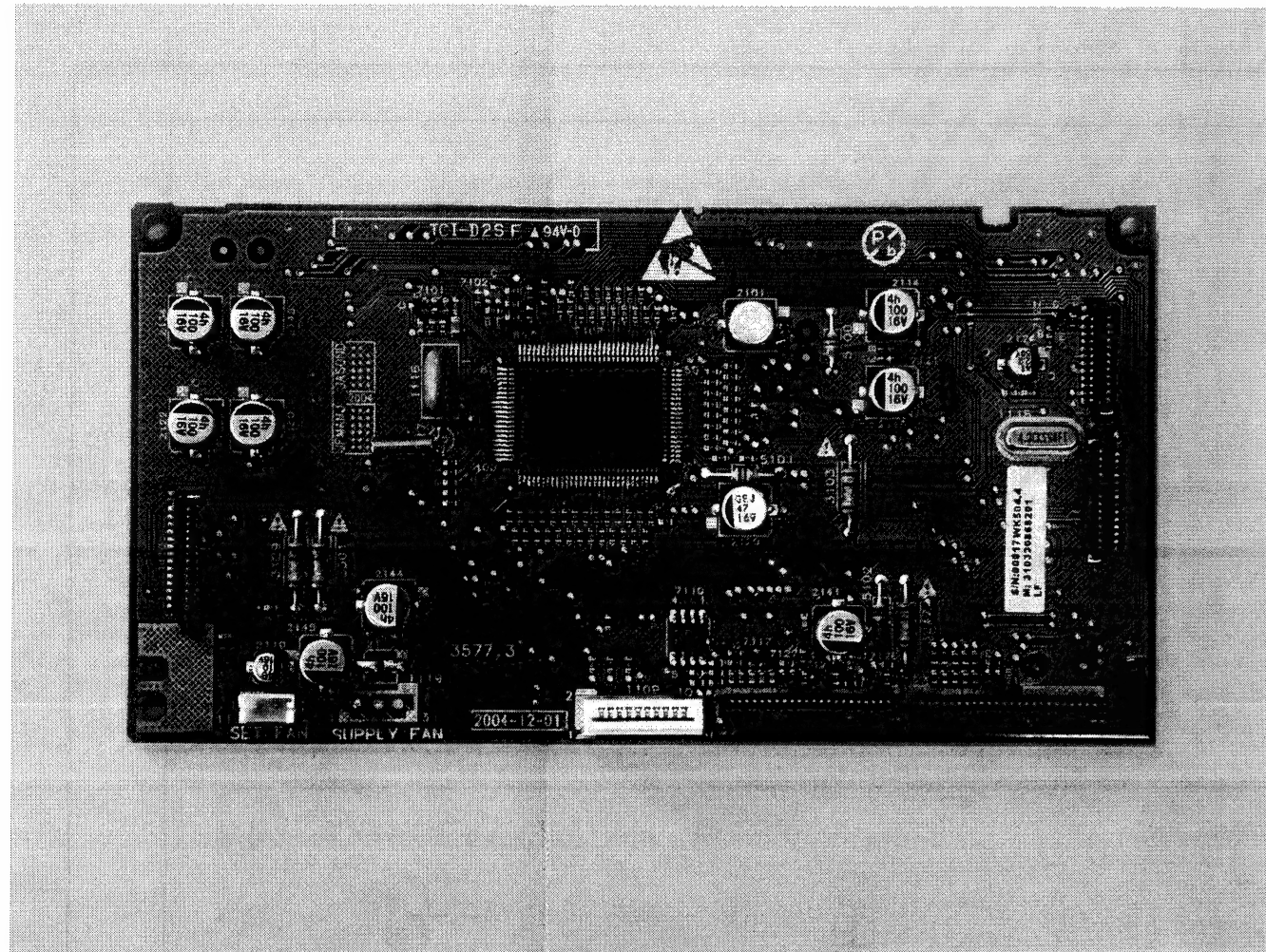
# 1 POWER SUPPLY AC6750



\* not used





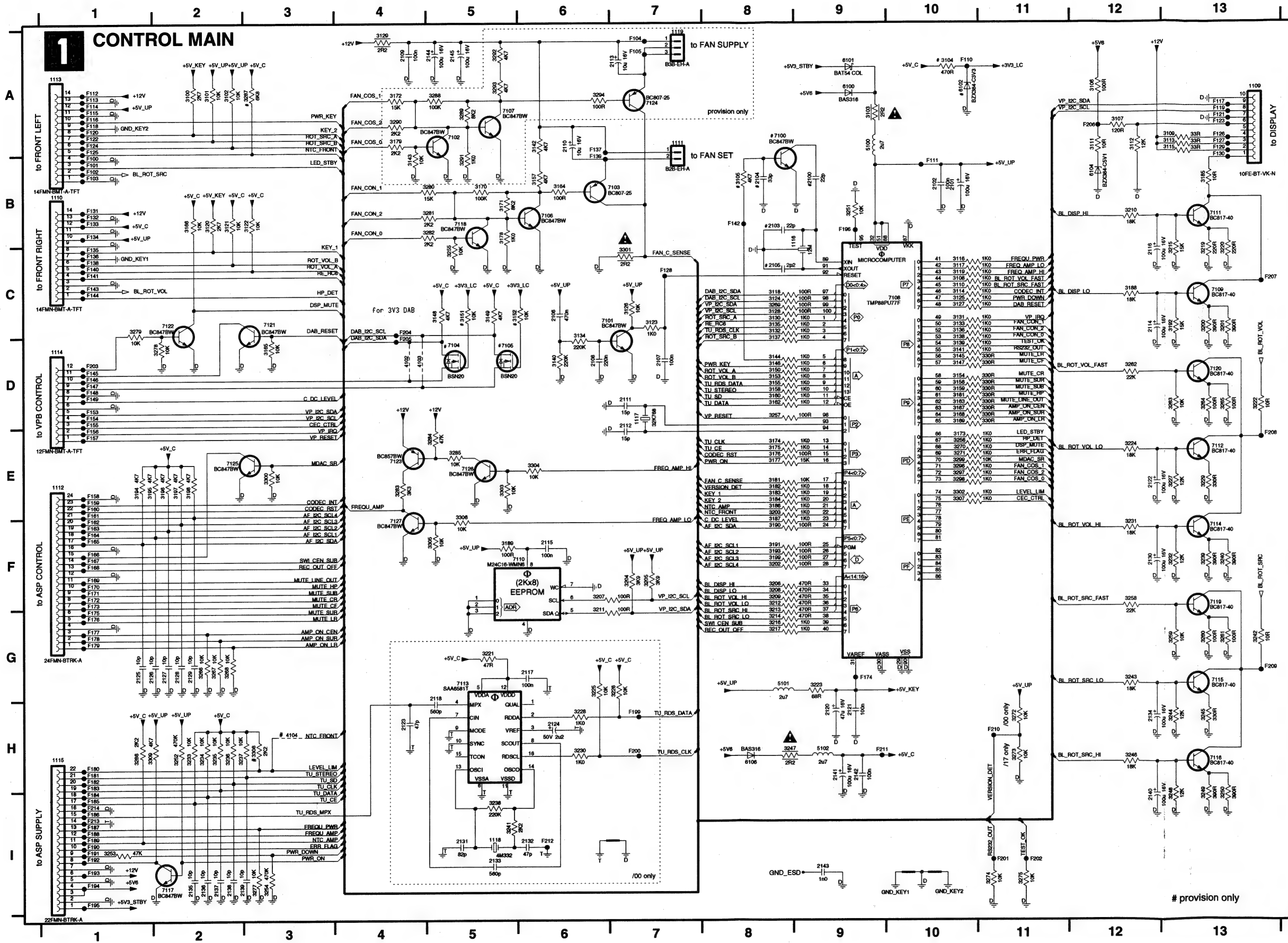


## Front Control

**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

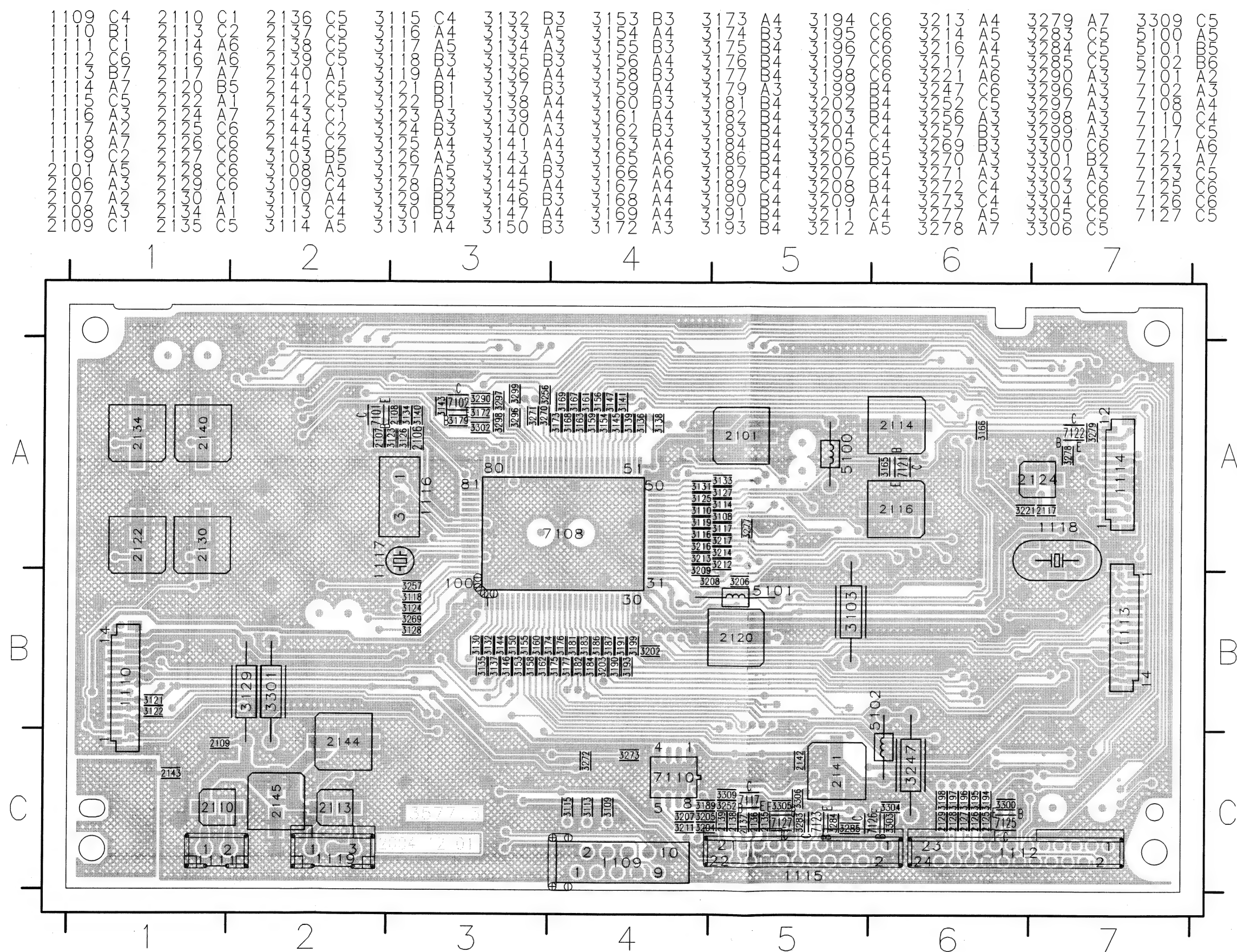
**In case of defects please replace the entire board.**

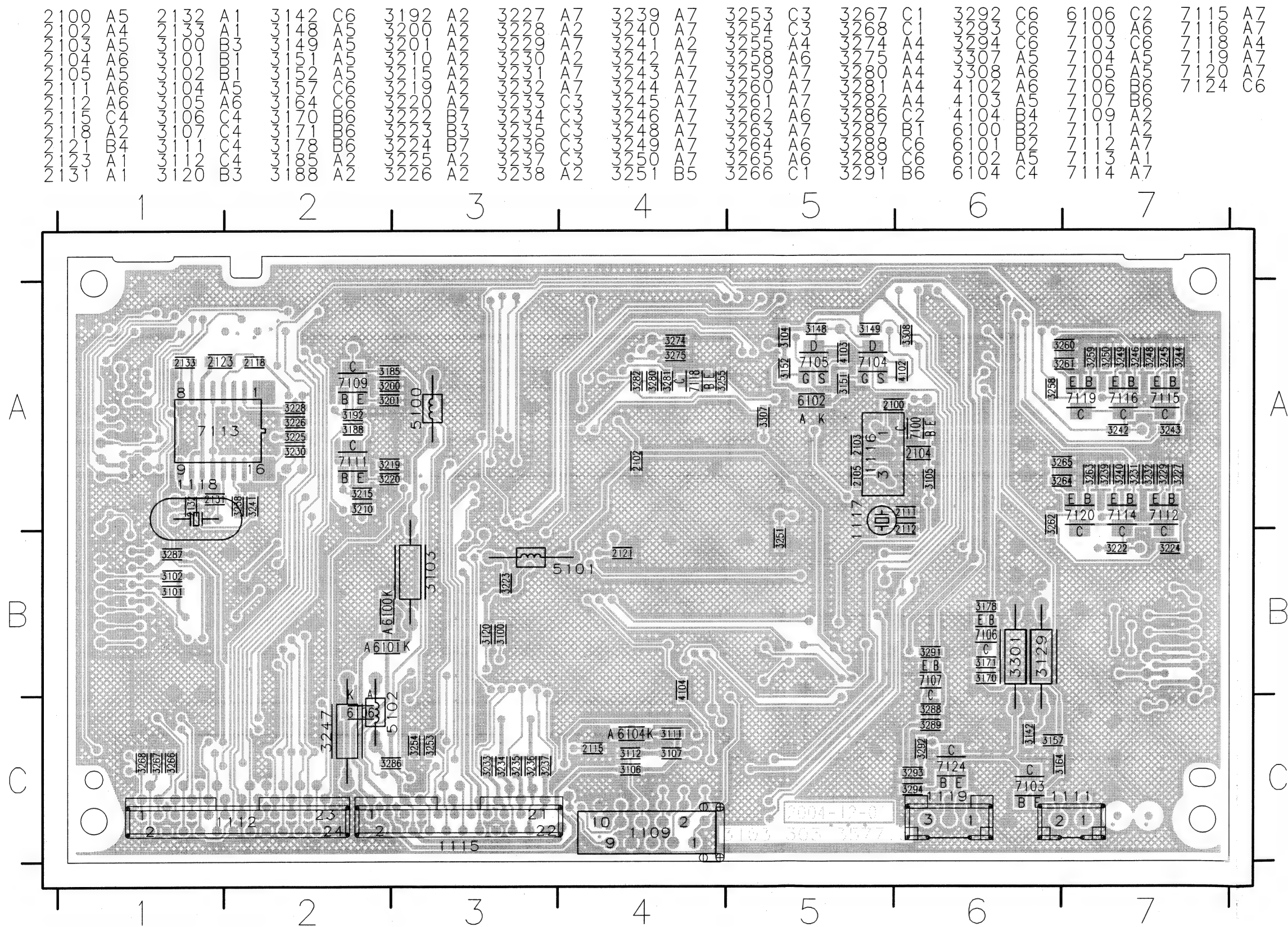
**Boards can be ordered with codenumber "9965 000 26719".**

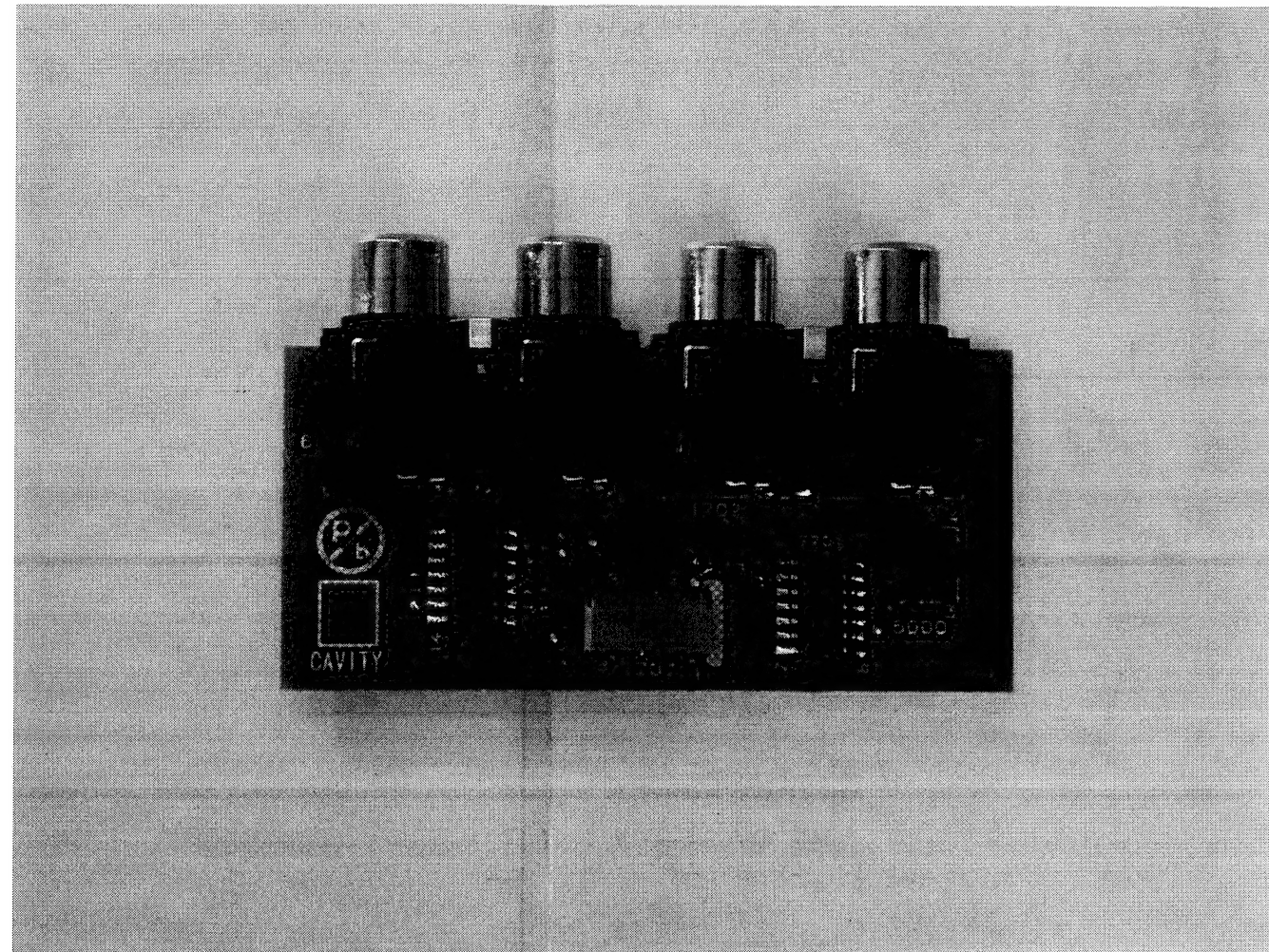


1109 A13	3161 D10	3281 B5	F157 E1
1110 B1	3162 D8	3282 B5	F158 E1
1111 A7	3163 D10	3283 E4	F159 E1
1112 E1	3164 B6	3284 E5	F160 E1
1113 A1	3165 D3	3285 E5	F161 E1
1114 D1	3166 B2	3286 H1	F162 F1
1115 H1	3167 D10	3287 A3	F163 F1
1116 B8	3168 D10	3288 A5	F164 F1
1117 D7	3169 D10	3289 A5	F165 F1
1118 I5	3170 B5	3290 A4	F166 F1
1119 A7	3171 B5	3291 B5	F167 F1
1200 B9	3172 A4	3292 A5	F168 F1
2101 B10	3173 E10	3293 A5	F169 F1
2102 B10	3174 E8	3294 A6	F170 F1
2103 B8	3175 E8	3295 E10	F171 F1
2104 B8	3176 E8	3297 E10	F172 F1
2105 C8	3177 E8	3298 E10	F173 F1
2106 C6	3178 B5	3299 E10	F174 G9
2107 D7	3179 A4	3300 E3	F175 G1
2108 D6	3181 E8	3301 C7	F176 G1
2109 A4	3182 E8	3302 E10	F177 G1
2110 A6	3183 E8	3303 E5	F178 G1
2111 D7	3184 E8	3304 E5	F179 G1
2112 E7	3185 B13	3305 F5	F180 H1
2113 A7	3186 E8	3306 F5	F181 H1
2114 C12	3187 F8	3307 E10	F182 H1
2115 F8	3188 C12	3308 H3	F183 H1
2116 C12	3189 F5	3309 H1	F184 H1
2117 G6	3190 F8	4102 D4	F185 H1
2118 H5	3191 F8	4103 D4	F186 H1
2120 H9	3192 C13	4104 H3	F187 H1
2121 H9	3193 F8	5100 A9	F188 H1
2122 E12	3194 E1	5101 G8	F189 H1
2123 H4	3195 E1	5102 H9	F190 H1
2124 H6	3196 E2	5103 A8	F191 H1
2125 G1	3197 E2	5104 H3	F192 H1
2126 G1	3198 E2	5105 D8	F193 H1
2127 G2	3199 F8	5106 B12	F194 H1
2128 G2	3200 C13	5106 H8	F195 H1
2129 G2	3201 C13	5107 A8	F196 B9
2130 F12	3202 F8	5108 C8	F197 H7
2131 I5	3203 E8	5109 A5	F200 H7
2132 H6	3204 F7	5110 B6	F201 H1
2133 H6	3205 F7	5111 D4	F202 H1
2134 H12	3206 F8	5112 D8	F203 D1
2135 E2	3207 F8	5113 G5	F204 C4
2136 E2	3208 F8	5114 F13	F205 D4
2137 I2	3209 F8	5115 C10	F206 A12
2138 I2	3210 B12	5116 C13	F207 C13
2139 I2	3211 G6	5117 C13	F208 E13
2140 I12	3212 F8	5118 B13	F209 G13
2141 H6	3213 G8	5119 E13	F210 H11
2142 H9	3214 G8	5120 H3	F211 H9
2143 I9	3215 C13	5121 F13	F212 H6
2144 A5	3216 G8	5122 G13	F213 H6
2145 A5	3217 G8	5123 H3	F214 H1
3000 A2	3219 C13	5124 H2	
3001 A2	3220 C13	5125 H5	
3002 A2	3221 G5	5126 F13	
3003 A9	3222 D13	5127 D13	
3004 A10	3223 G9	5128 C2	
3005 B8	3224 E12	5129 C2	
3006 A12	3225 G6	5130 A7	
3007 A12	3226 G7	5131 A7	
3008 C10	3227 E13	5132 E5	
3009 A13	3228 H6	5133 H6	
3010 C10	3229 E13	5134 F4	
3011 A12	3230 H6	5135 H6	
3012 A12	3231 F12	5136 B1	
3013 A13	3232 F13	5137 A1	
3014 C10	3233 H2	5138 B1	
3015 A13	3234 H2	5139 A7	
3016 C10	3235 H2	5140 A7	
3017 C10	3236 H2	5141 A10	
3018 C8	3237 H2	5142 H10	
3019 C10	3238 H5	5143 B10	
3020 B2	3239 F13	5144 A1	
3021 B2	3240 F13	5145 A1	
3022 B3	3241 I5	5146 A1	
3023 C7	3242 G13	5147 A13	
3024 C8	3243 G12	5148 A13	
3025 C10	3244 H13	5149 A13	
3026 C7	3245 H13	5150 A13	
3027 C10	3246 H12	5151 A1	
3028 C8	3247 H6	5152 A13	
3029 A4	3248 H13	5153 A13	
3030 C8	3249 H13	5154 A13	
3031 C10	3250 H13	5155 A1	
3032 C8	3251 B9	5156 A1	
3033 C10	3252 H2	5157 A13	
3034 D6	3253 H1	5158 A13	
3035 C8	3254 H3	5159 C7	
3036 C10	3255 C5	5160 A13	
3037 D8	3256 E10	5161 B13	
3038 D10	3257 D8	5162 B1	
3039 D10	3258 F12	5163 B1	
3040 D6	3259 G13	5164 B1	
3041 D10	3260 G13	5165 B1	
3042 A6	3261 G13	5166 C1	
3043 B4	3262 D12	5167 A6	
3044 D6	3263 D13	5168 A6	
3045 D10	3264 D13	5169 B6	
3046 D6	3265 D13	5170 B6	
3047 D10	3266 G2	5171 C1	
3048 C5	3267 G2	5172 C1	
3049 C5	3268 G2	5173 B8	
3050 D6	3269 C8	5174 C1	
3051 C5	3270 E10	5175 C1	
3052 C5	3271 E10	5176 D1	
3053 D8	3272 H11	5177 D1	
3054 D10	3273 H11	5178 D1	
3055 D8	3274 H11	5179 D1	
3056 D10	3275 H11	5180 D1	
3057 B6	3276 H11	5181 D1	
3058 D6	3277 D2	5182 D1	
3059 D10	3278 C1	5183 D1	
3060 D6	3279 C1	5184 D1	
	3280 B5	5185 E1	

# provision only







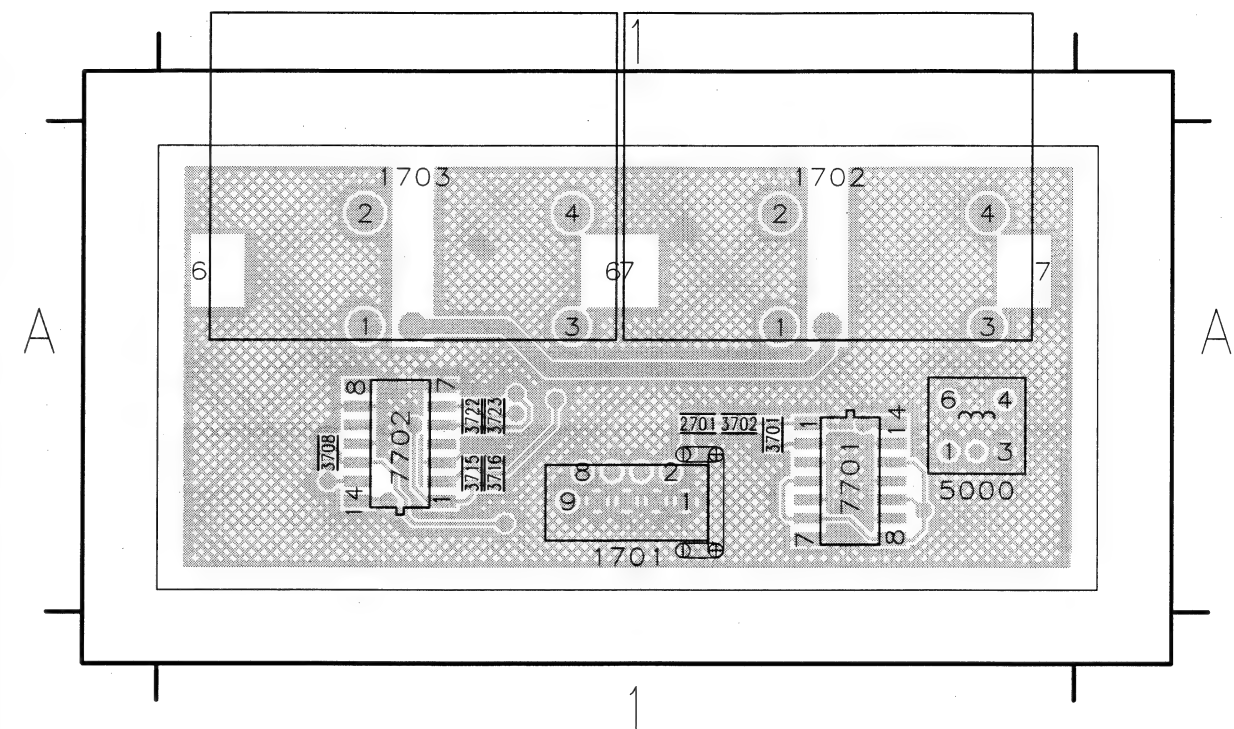
## Digital I/O

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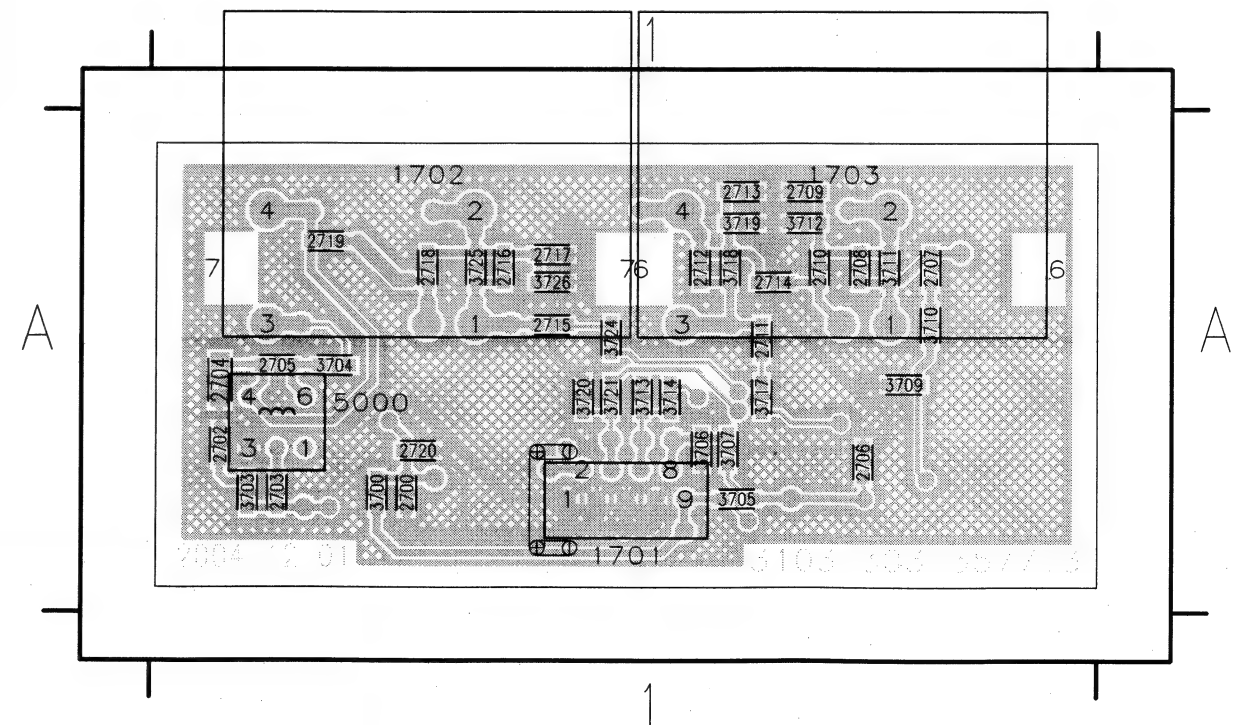
**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber "9965 000 26720".**

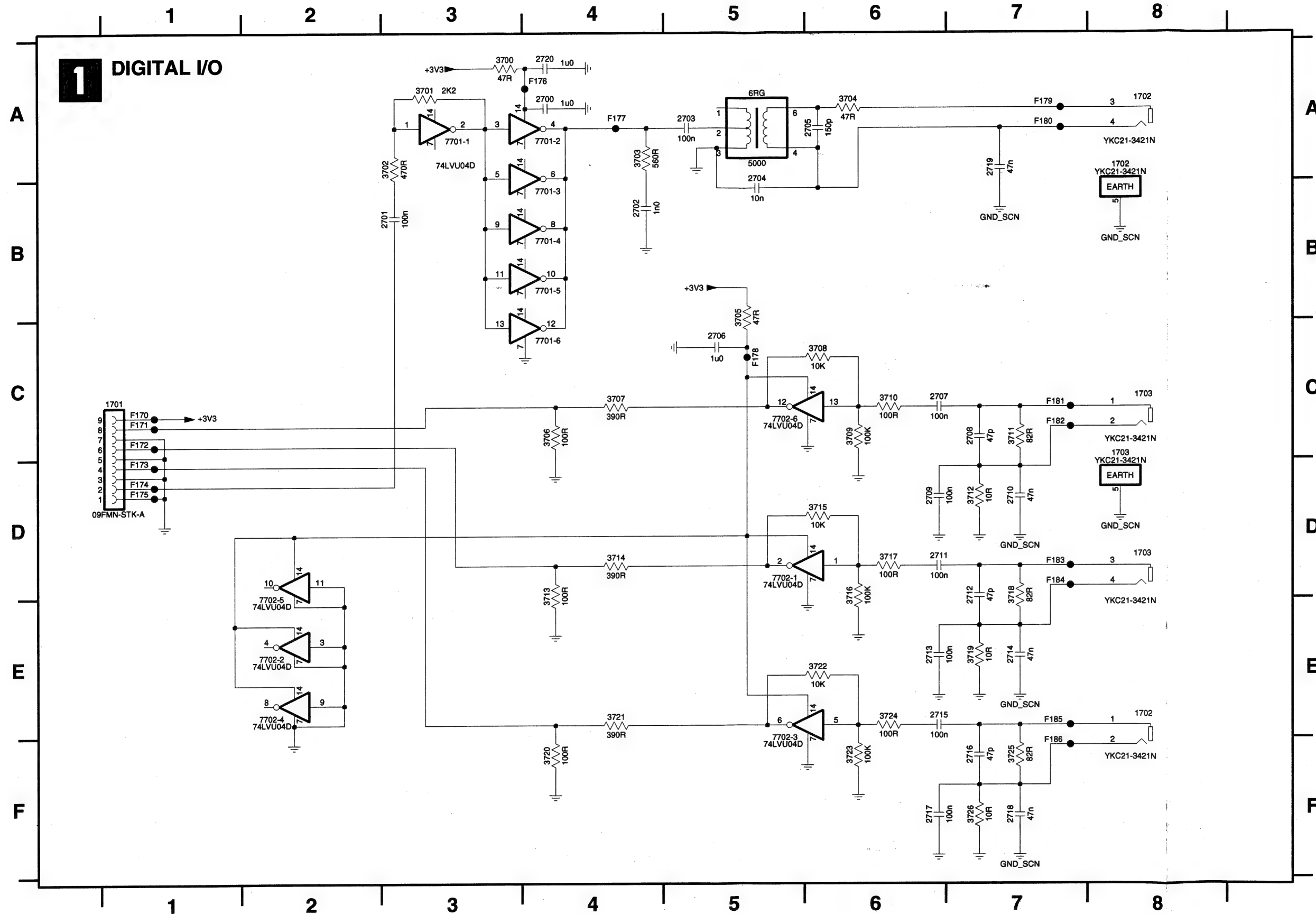
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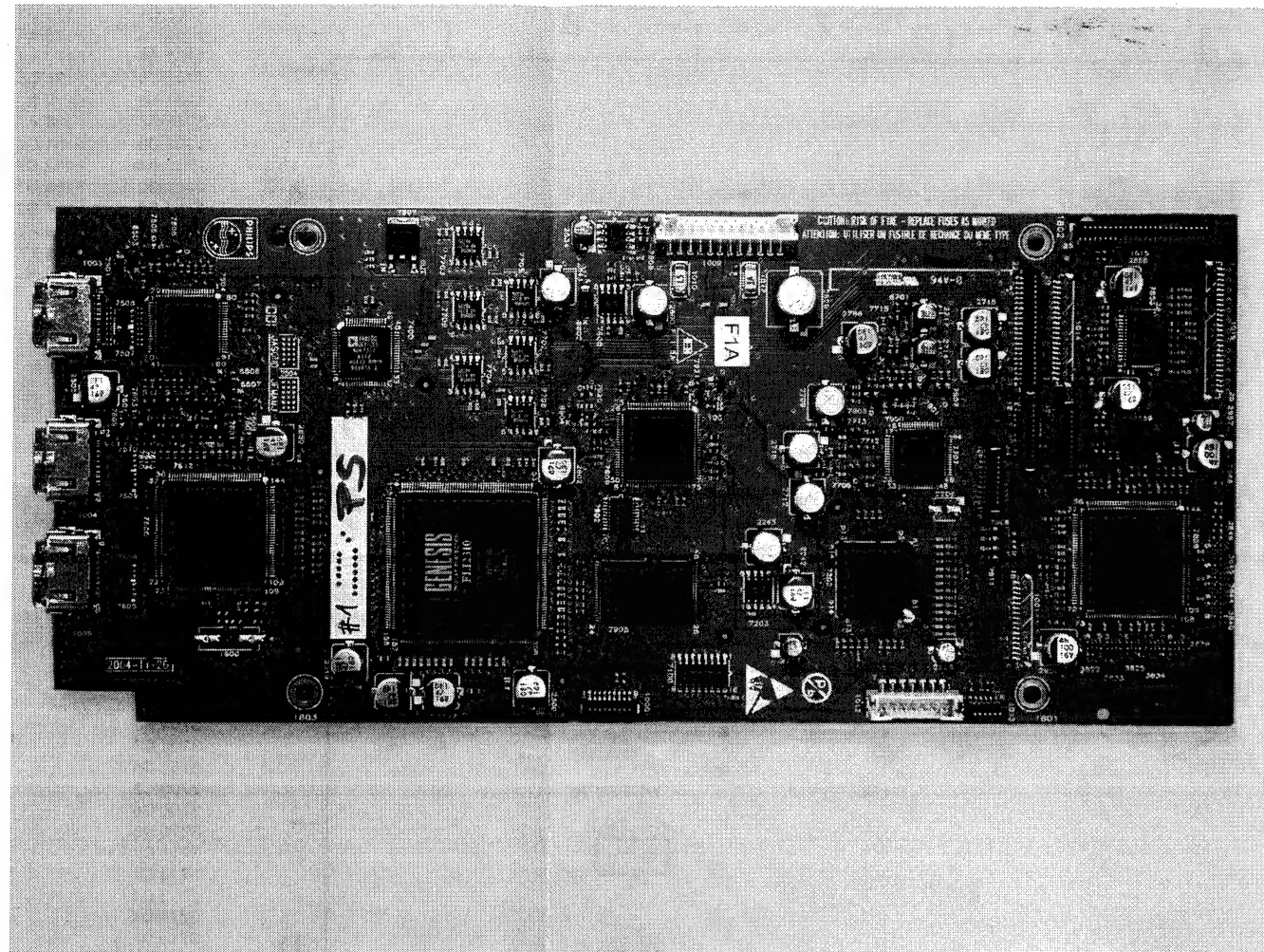


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2705 A1	2713 A1	3700 A1	3711 A1	3721 A1
2706 A1	2714 A1	3703 A1	3712 A1	3724 A1
2707 A1	2715 A1	3704 A1	3713 A1	3725 A1
2708 A1	2716 A1	3705 A1	3714 A1	3726 A1



1701 C1  
1702 A8  
1702 A8  
1702 E8  
1703 C8  
1703 C8  
1703 D8  
2700 A4  
2701 B3  
2702 B4  
2703 A5  
2704 B5  
2705 A6  
2706 C5  
2707 C6  
2708 C7  
2709 D6  
2710 D7  
2711 D6  
2712 D7  
2713 E6  
2714 E7  
2715 E6  
2716 F7  
2717 F6  
2718 F7  
2719 A7  
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3701 A3  
3702 A3  
3703 A4  
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3706 C4  
3707 C4  
3708 C6  
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3720 F4  
3721 E4  
3722 E6  
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3725 F7  
3726 F7  
5000 A5  
7701-1 A3  
7701-2 A4  
7701-3 B4  
7701-4 B4  
7701-5 B4  
7701-6 C4  
7702-1 D5  
7702-2 E2  
7702-3 F5  
7702-4 E2  
7702-5 E2  
7702-6 C5  
F170 C1  
F171 C1  
F172 C1  
F173 D1  
F174 D1  
F175 D1  
F176 A4  
F177 A4  
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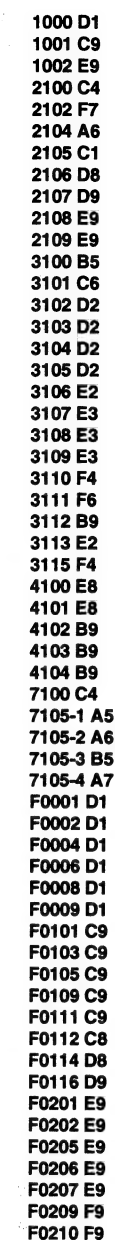


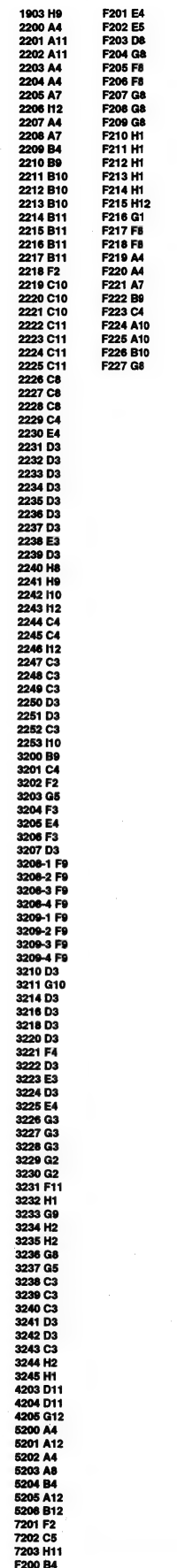
## Video Processing Board

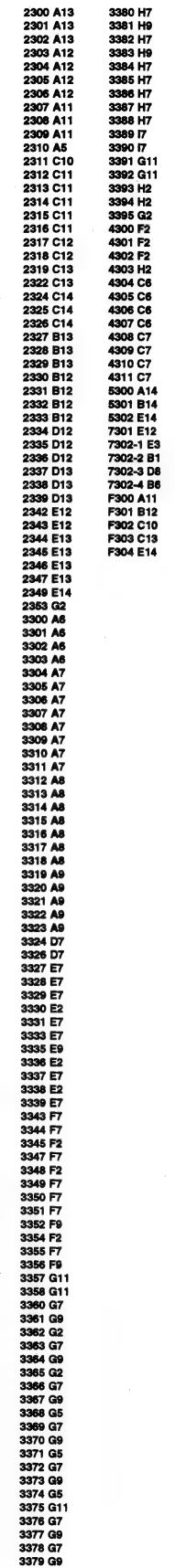
**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

**In case of defects please replace the entire board.**

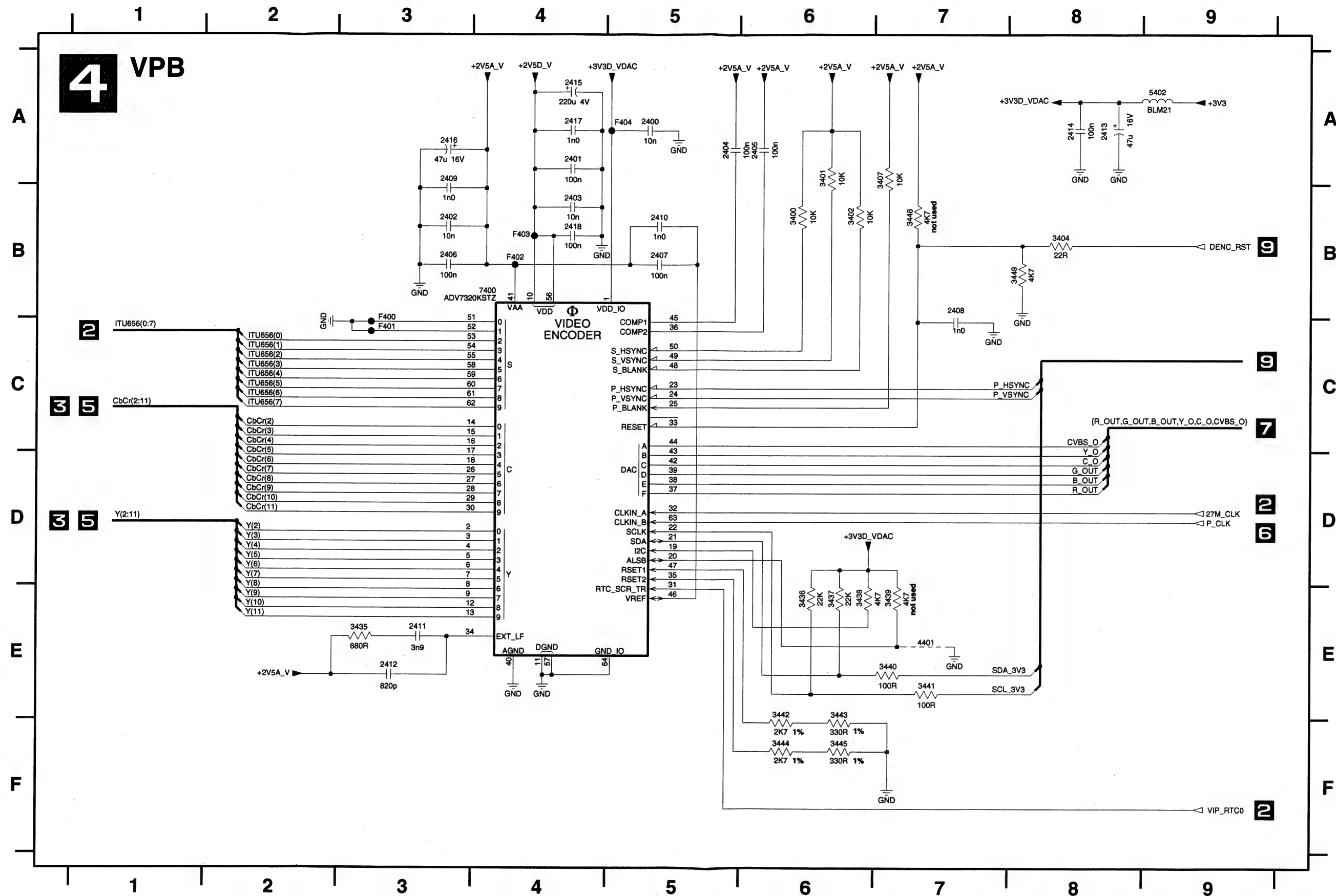
**Boards can be ordered with codenumber "3103 608 51512".**



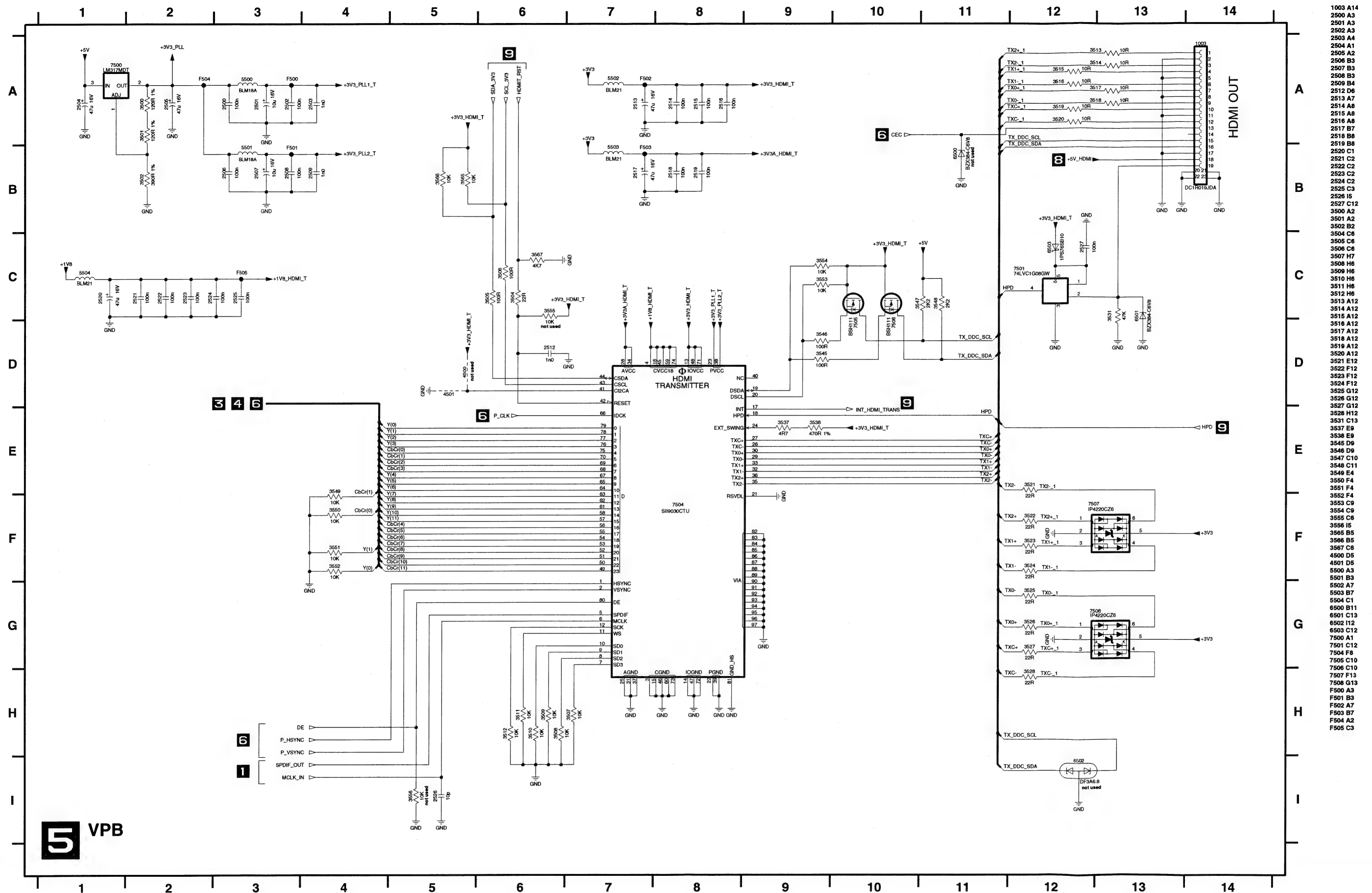


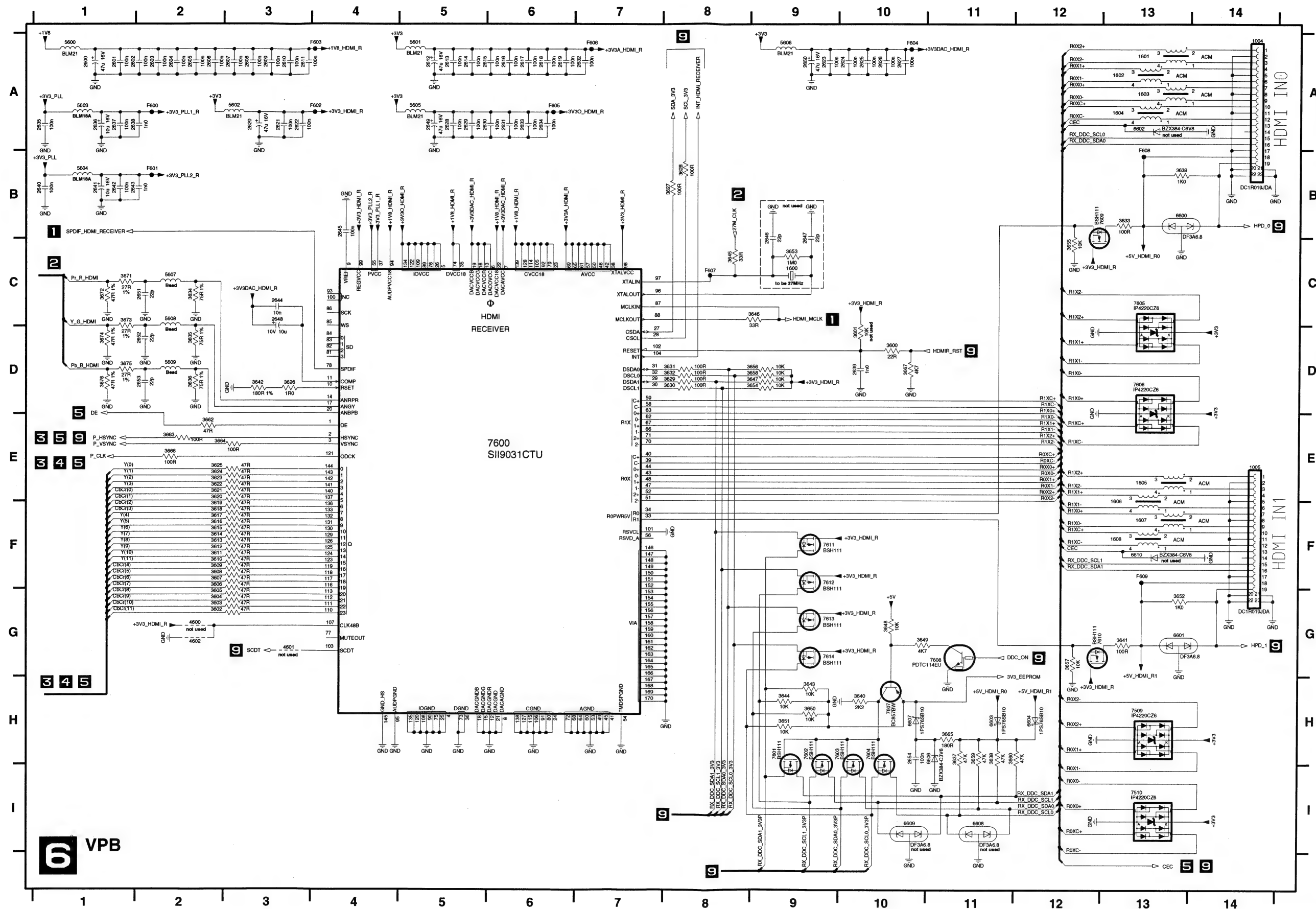


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2305 A12	3385 H7
2306 A12	3386 H7
2307 A11	3387 H7
2308 A11	3388 H7
2309 A11	3389 H7
2310 A5	
2311 C10	3391 G11
2312 C11	3392 G11
2313 C11	3393 H2
2314 C11	3394 H2
2315 C11	3395 G2
2316 C11	4300 F2
2317 C12	4301 F2
2318 C12	4302 F2
2319 C13	4303 H2
2322 C13	4304 C8
2324 C14	4305 C8
2325 C14	4306 C8
2326 C14	4307 C8
2327 B13	4306 C7
2328 B13	4309 C7
2329 B13	4310 C7
2330 B12	4311 C7
2331 B12	5300 A14
2332 B12	5301 B14
2333 B12	5302 E14
2334 B12	7301 E12
2335 D12	7302-1 E3
2336 D12	7302-2 B
2337 D13	7302-3 D8
2338 D13	7302-4 B6
2339 D13	F300 A11
2342 E12	F301 B12
2343 E12	F302 C10
2344 E13	F303 C13
2345 E13	F304 E14
2346 E13	
2347 E13	
2349 E14	
2353 G2	
3300 A6	
3301 A6	
3302 A6	
3303 A6	
3304 A7	
3305 A7	
3306 A7	
3307 A7	
3308 A7	
3309 A7	
3310 A7	
3311 A7	
3312 A8	
3313 A8	
3314 A8	
3315 A8	
3316 A8	
3317 A8	
3318 A8	
3319 A9	
3320 A9	
3321 A9	
3322 A9	
3323 A9	
3324 D7	
3325 D7	
3326 D7	
3327 E7	
3328 E7	
3329 E7	
3330 E2	
3331 E7	
3333 E7	
3335 E9	
3336 E2	
3337 E7	
3338 E2	
3339 E7	
3343 F7	
3344 F7	
3345 F2	
3347 F7	
3348 F2	
3349 F7	
3350 F7	
3351 F7	
3352 F9	
3354 F2	
3355 F7	
3356 F9	
3357 G11	
3358 G11	
3360 G7	
3361 G9	
3362 G2	
3363 G7	
3364 G9	
3365 G2	
3366 F7	
3367 G9	
3369 G5	
3369 G7	
3370 G9	
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3377 G9	
3378 G7	
3379 G9	

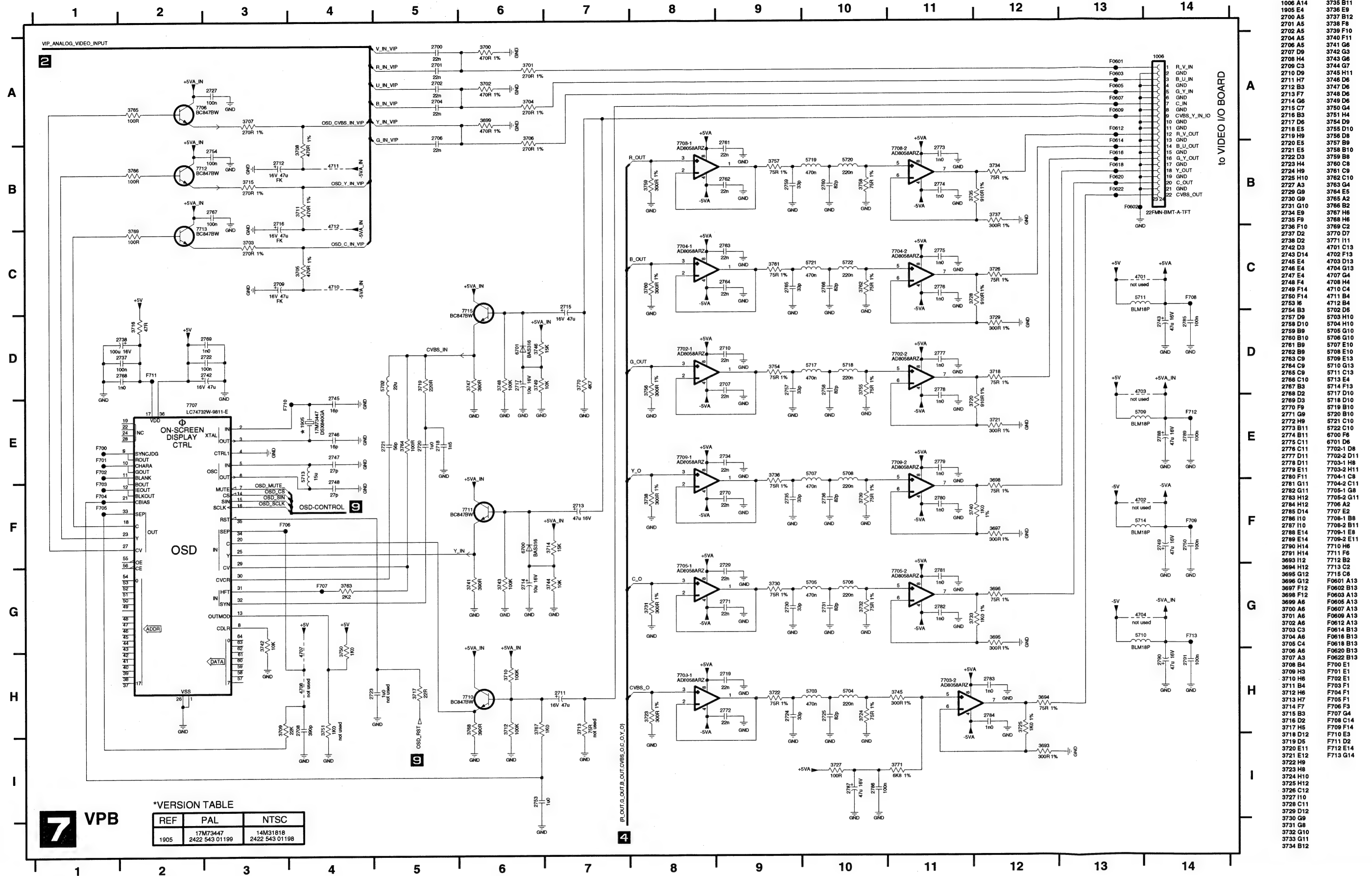


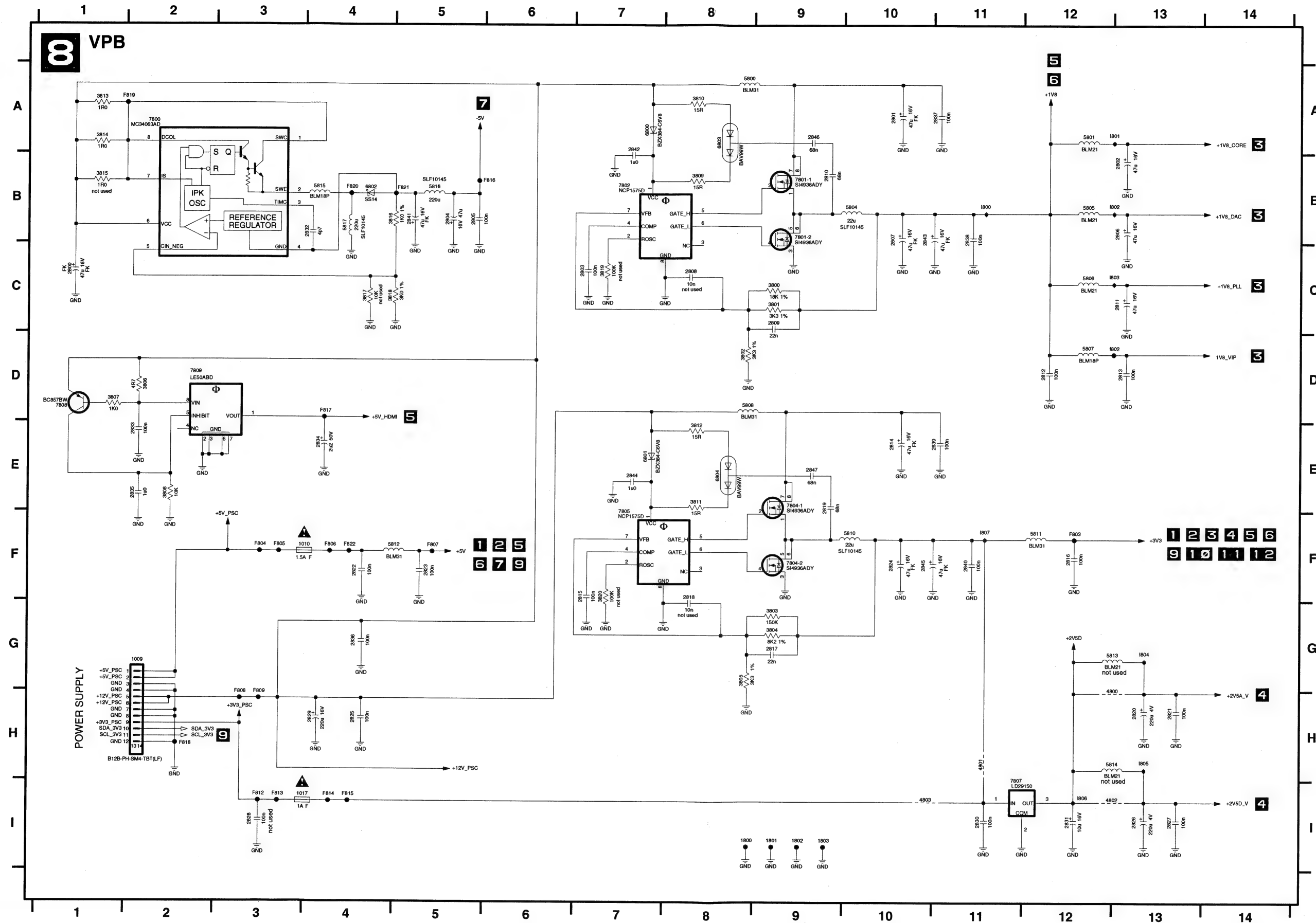
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 2417 A4  
 2418 B4  
 3400 B6  
 3401 A6  
 3402 B6  
 3404 B8  
 3407 A7  
 3435 E3  
 3436 E6  
 3437 E6  
 3438 E6  
 3439 E7  
 3440 E7  
 3441 E7  
 3442 E6  
 3443 E6  
 3444 F6  
 3445 F6  
 3448 B7  
 3449 B8  
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 F401 C3  
 F402 B4  
 F403 B4  
 F404 A5



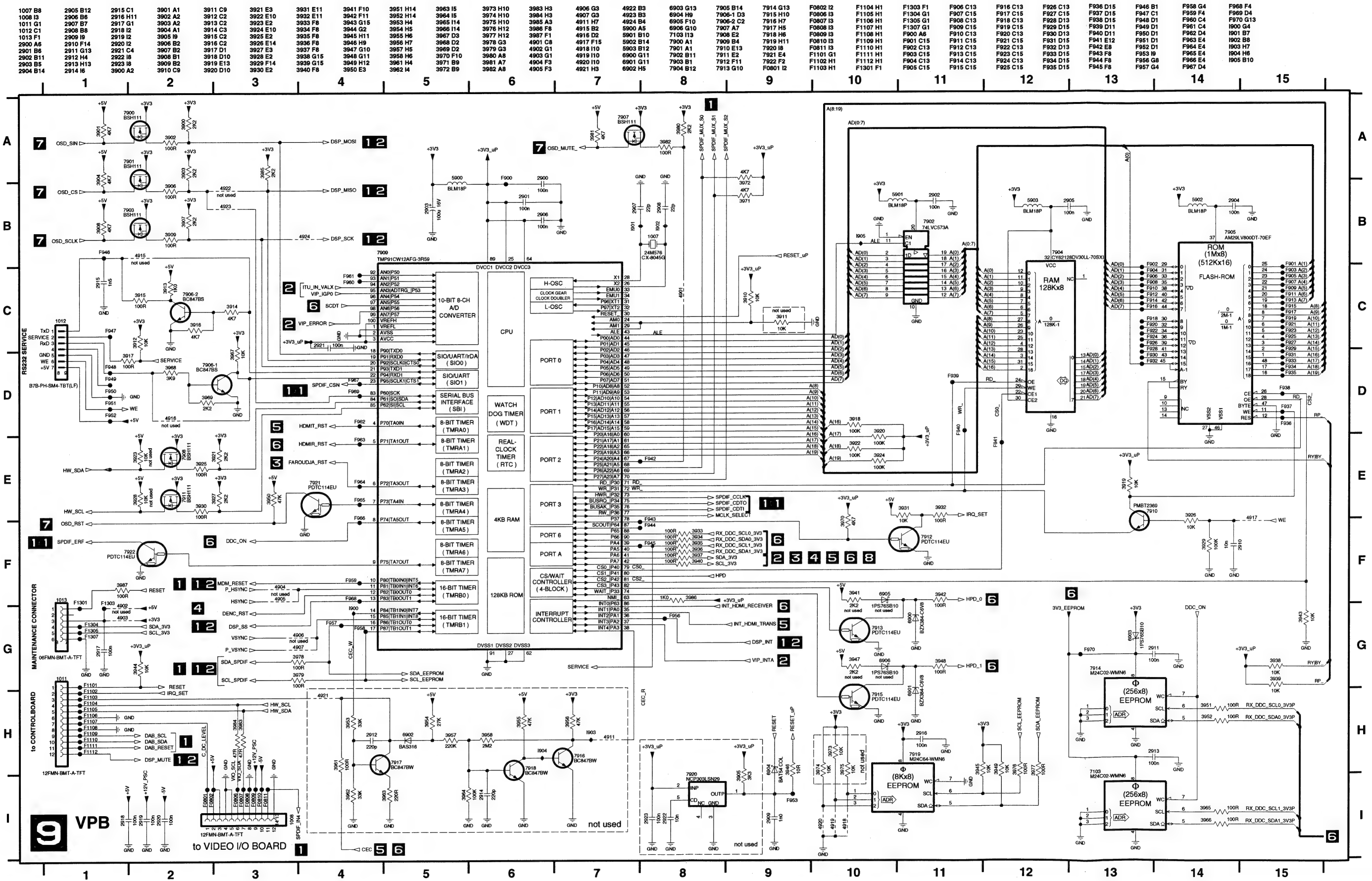


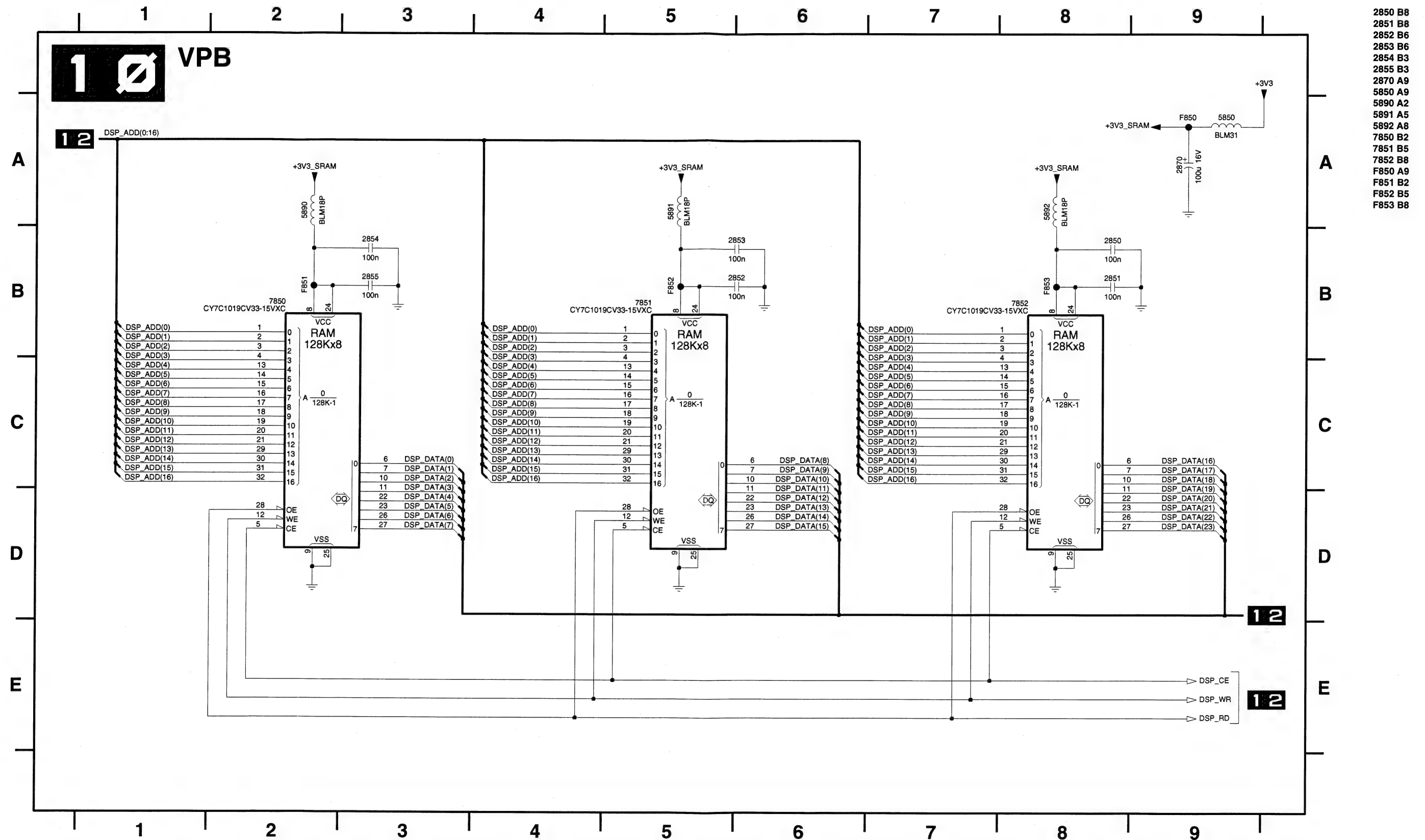
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1603 A13	3656 D9
1604 A13	3657 G12
1605 E13	3658 D9
1606 F13	3659 H11
1607 F13	3660 H11
2600 A1	3661 E2
2601 A1	3662 E2
2602 A1	3663 E2
2603 A2	3664 E2
2604 A2	3665 H11
2605 A2	3666 E2
2606 A2	3667 D10
2607 A3	3668 C1
2608 A3	3669 C1
2609 A3	3670 D1
2610 A3	3671 D1
2611 A5	4600 G2
2612 A5	4601 G2
2613 A5	4602 G2
2614 A5	5600 A1
2615 A5	5601 A5
2616 A6	5602 A3
2617 A6	5603 A1
2618 A6	5604 B1
2619 A6	5605 A5
2620 A3	5606 A9
2621 A3	5607 C2
2622 A3	5608 C2
2623 A9	5609 D2
2624 A10	5600 B13
2625 A10	6601 G13
2626 A10	6602 A13
2627 A10	6603 H11
2628 A5	6604 H12
2629 A5	6605 H11
2630 A5	6607 H10
2631 A6	6608 I11
2632 A7	6609 I10
2633 A6	6610 F13
2634 A6	7509 H13
2635 A1	7510 I13
2636 A1	7600 E6
2637 A1	7601 H9
2638 A1	7602 H9
2639 D10	7603 H10
2640 B1	7604 H10
2641 B1	7605 C13
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2643 B1	7607 H10
2644 C3	7608 G11
2645 B4	7609 B12
2646 B9	7610 G12
2647 B9	7611 F9
2648 C3	7612 F9
2649 A5	7613 G9
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2651 C2	F600 A2
2652 D2	F601 B2
2653 D2	F602 A4
2654 H10	F603 A4
3600 D10	F604 A10
3601 D10	F605 A6
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3635 D2	
3636 D2	
3637 H11	
3638 H11	
3639 B13	
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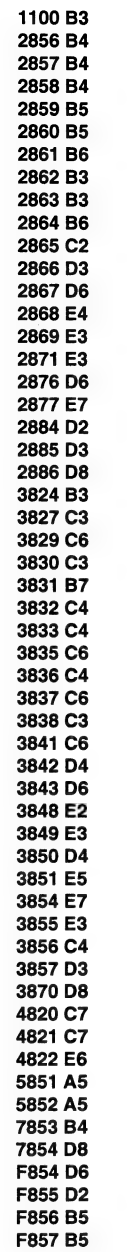


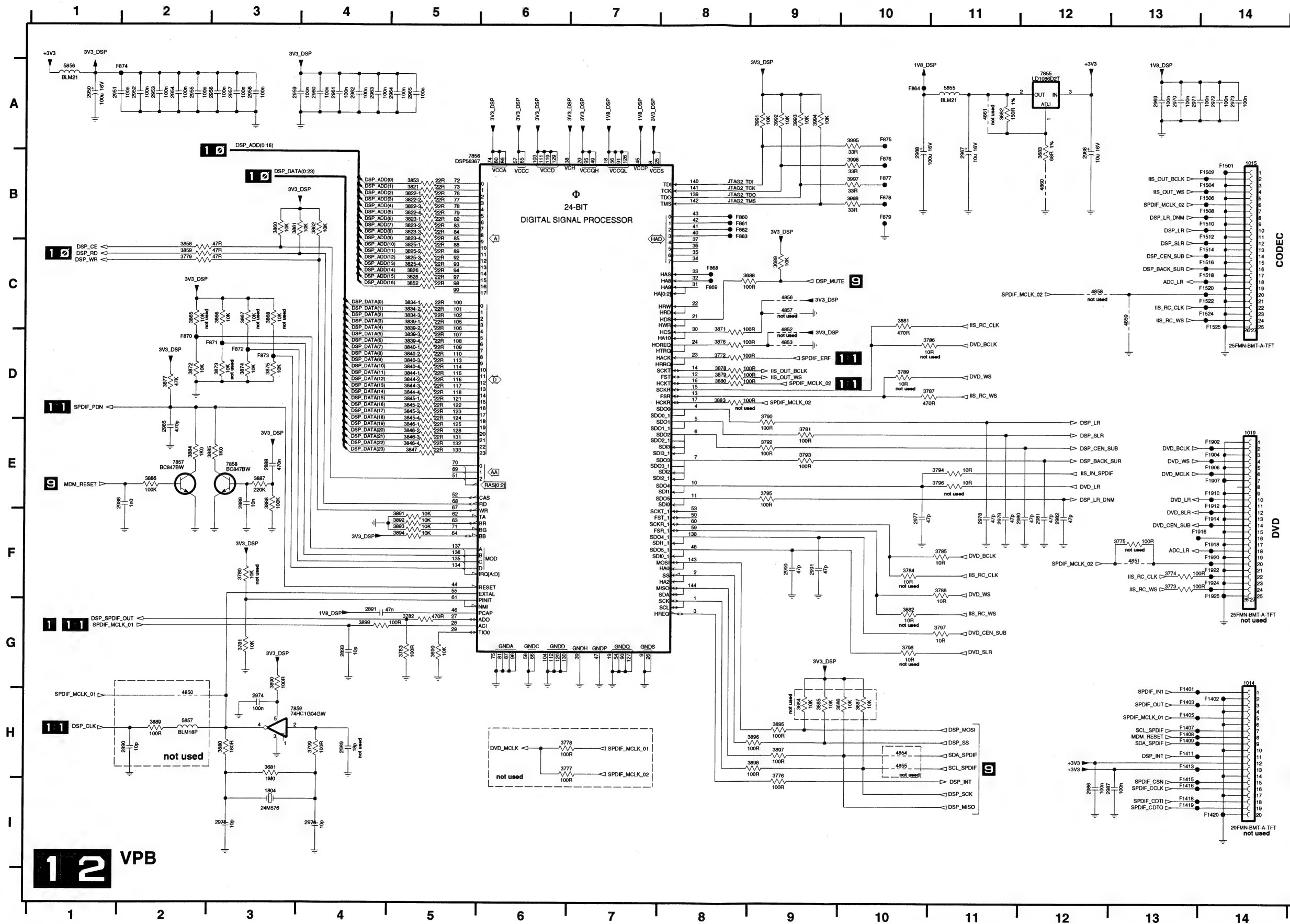


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1803 I9	F816 B6
2800 C1	F817 D4
2801 A10	F818 H2
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2803 C7	F820 B4
2804 B5	F821 B5
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2806 B13	I800 B11
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2809 C9	I803 C13
2810 B9	I804 G13
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2813 D13	I807 F11
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2815 F7	
2816 F12	
2817 G9	
2818 F8	
2819 E9	
2820 H13	
2821 H13	
2822 F4	
2823 F5	
2824 F10	
2825 H4	
2826 I13	
2827 I13	
2828 I3	
2829 H4	
2830 I11	
2831 I12	
2832 B4	
2833 E2	
2834 E4	
2835 E2	
2836 G4	
2837 A11	
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2844 E7	
2845 F10	
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7804-2 F9	
7805 F7	
7807 I1	
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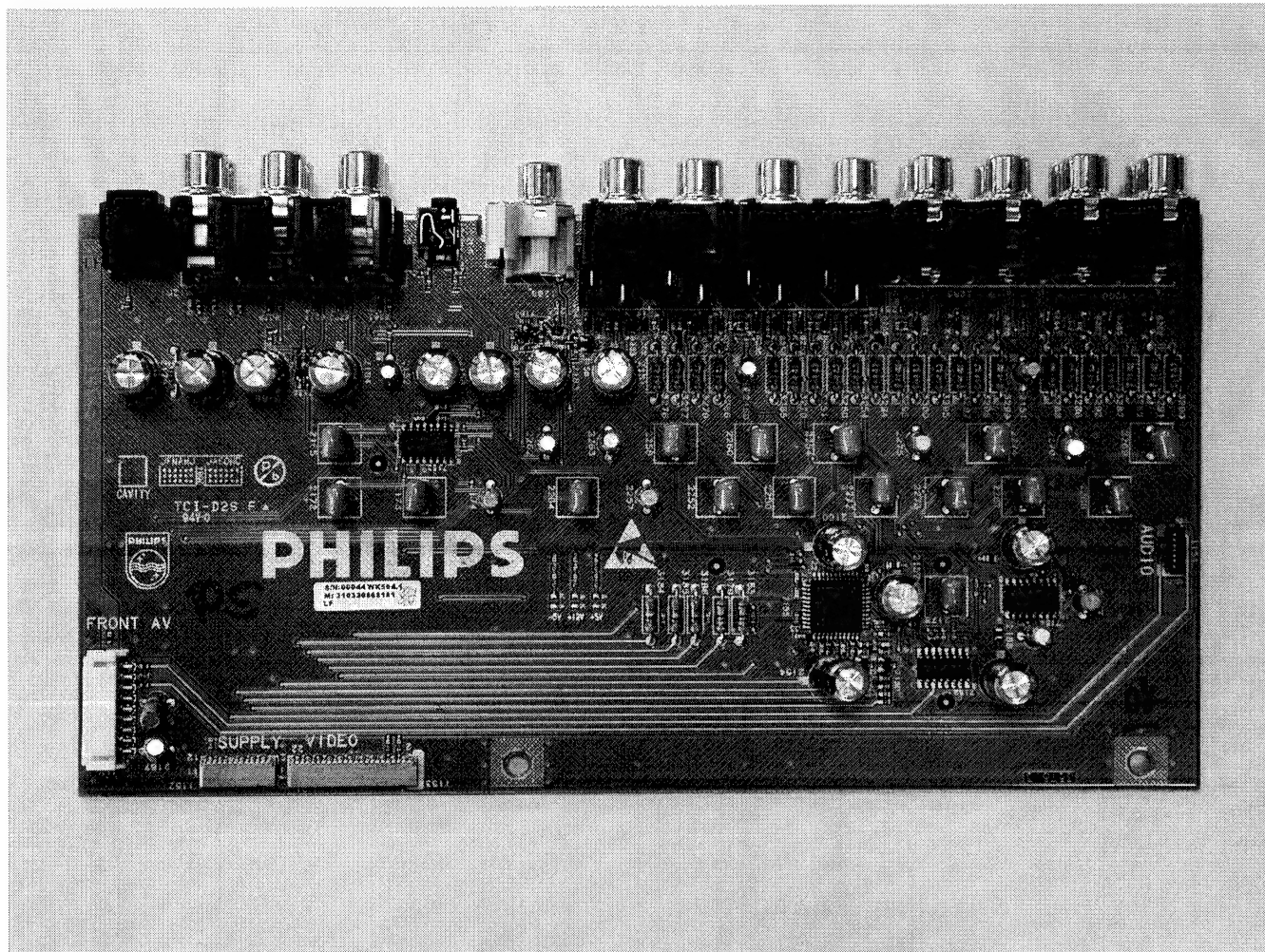




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1016 E14	3846-2 E5	F871 D3
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2888 E3	3846-4 E5	F873 D3
2889 E3	3847 E5	F874 A2
2890 E2	3848 E5	F875 A10
2891 G4	3853 B5	F876 B10
2893 G4	3858 C2	F877 B10
2950 A1	3859 C2	F878 B10
2951 A1	3860 B3	F879 B10
2952 A2	3861 B3	
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2954 A2	3865 C2	
2955 A2	3866 C3	
2956 A3	3867 C3	
2957 A3	3868 C3	
2958 A3	3871 D8	
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2961 A4	3874 D3	
2962 A4	3875 D3	
2963 A4	3876 D8	
2964 A5	3877 D2	
2965 A5	3878 D8	
2966 B12	3879 B3	
2967 B11	3880 D8	
2968 B10	3881 C10	
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2972 A14	3885 E2	
2973 A14	3886 E2	
2974 H3	3887 E3	
2975 I3	3888 E3	
2976 I4	3889 H2	
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3686 H10	4851 F13	
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3689 C9	4854 H10	
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3772 D8	4856 C9	
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3775 F13	4859 C13	
3776 H9	4860 B12	
3777 H6	4861 A11	
3778 H6	5855 A11	
3779 C2	5856 A1	
3780 F3	5857 H2	
3781 G3	7855 A12	
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3784 F10	7858 E3	
3785 F11	7859 H3	
3786 D10	F1402 H13	
3787 D10	F1402 H14	
3788 F11	F1403 H13	
3789 D10	F1405 H13	
3790 D9	F1407 H13	
3791 E9	F1408 H13	
3792 E9	F1409 H13	
3793 E9	F1411 H13	
3794 E11	F1413 H13	
3795 E9	F1415 H13	
3796 E11	F1416 H13	
3797 G11	F1418 H13	
3798 G10	F1420 H13	
3799 H4	F1420 I14	
3821 B5	F1501 B14	
3822-1 B5	F1502 B14	
3822-2 B5	F1504 B14	
3822-3 B5	F1506 B14	
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3823-1 B5	F1510 B14	
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3823-3 B5	F1514 C14	
3823-4 C5	F1516 C14	
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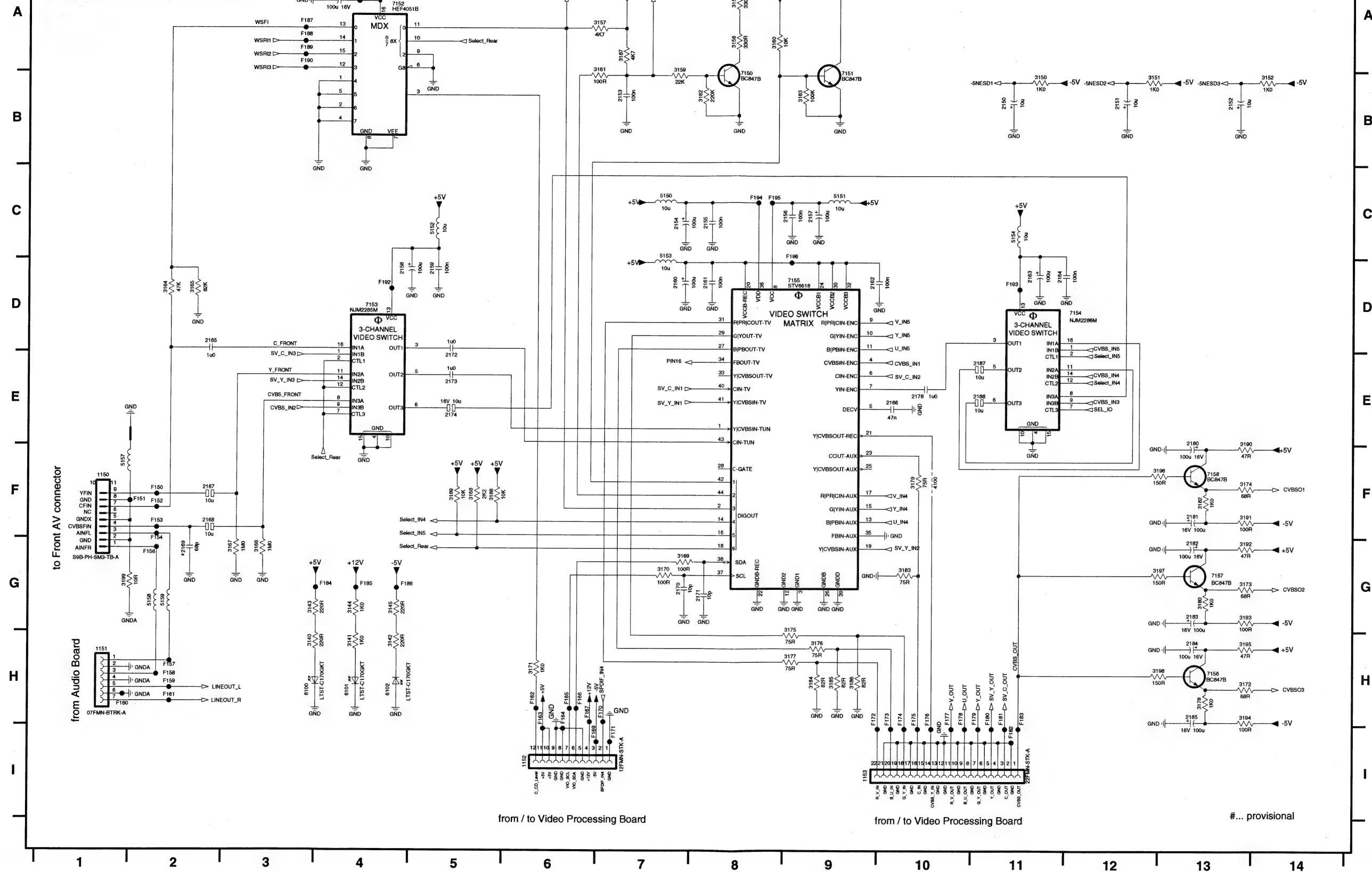
## Video I/O

**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber "3103 308 68181".**

# 1 VIDEO I/O Video switching

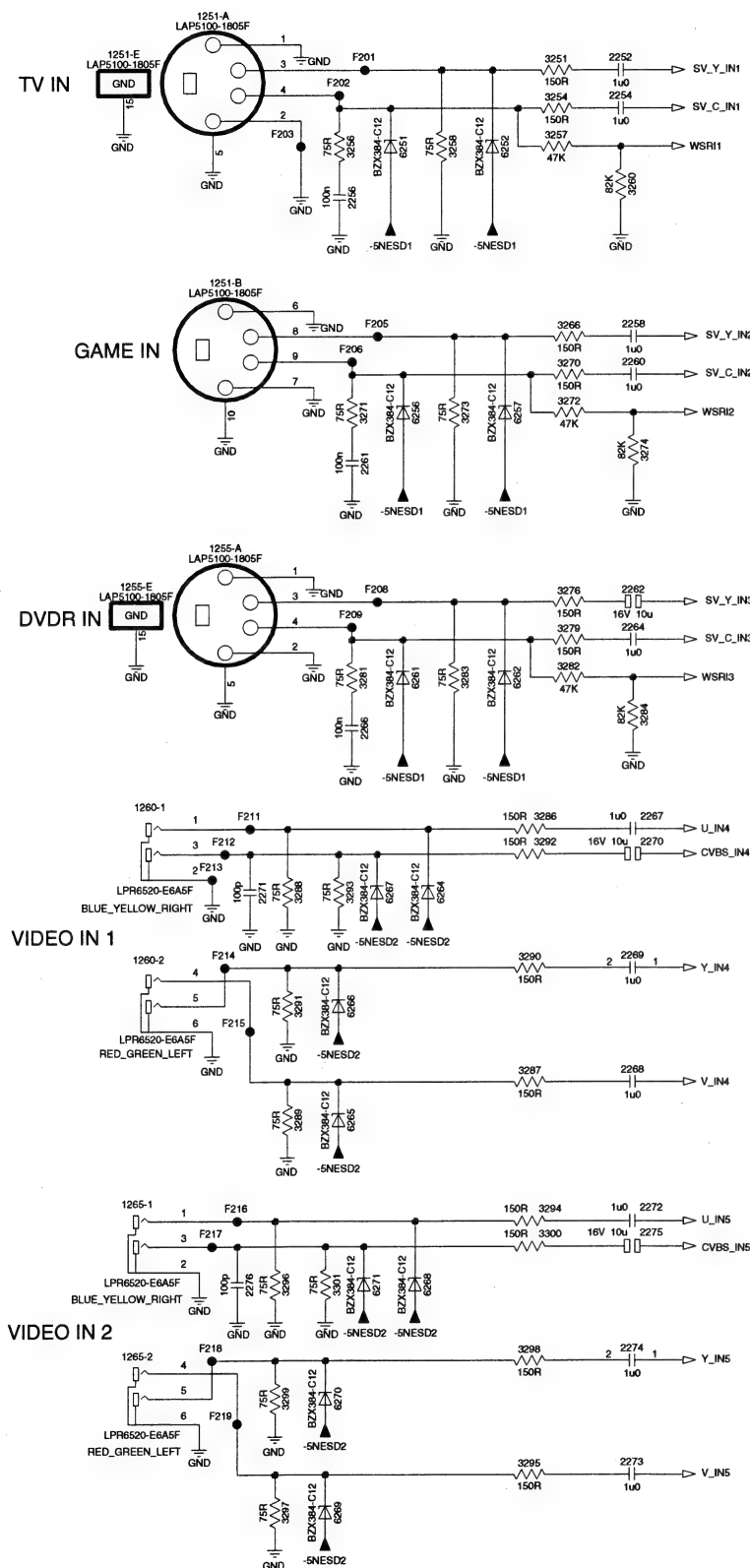


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2152 B13	F157 H2
2153 B7	F158 H2
2154 C7	F159 H2
2155 C8	F160 H1
2156 C9	F161 H2
2157 C9	F162 H6
2158 D4	F163 H6
2159 D5	F164 H6
2160 D7	F165 H6
2161 D8	F166 H6
2162 D9	F167 H6
2163 D11	F169 I7
2164 D11	F170 H7
2165 D2	F171 I7
2166 E10	F172 H9
2167 F2	F173 H10
2168 F2	F174 H10
2169 G2	F175 H10
2170 G7	F176 H10
2171 G8	F177 H10
2172 E5	F178 H10
2173 E5	F179 H11
2174 E5	F180 H11
2178 E10	F181 H11
2180 E13	F182 I11
2181 F13	F183 H11
2182 G13	F184 G4
2183 G13	F185 G4
2184 H13	F186 G4
2185 H13	F187 A3
2186 A4	F188 A3
2187 E11	F189 A3
2188 E11	F190 A3
3140 H3	F191 A4
3141 H4	F192 D4
3142 H4	F193 D1
3143 G3	F194 C3
3144 G4	F195 C3
3145 G4	F196 C3
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3163 B9	
3164 D2	
3165 D2	
3166 G3	
3167 G3	
3168 F5	
3169 G7	
3170 G7	
3171 H6	
3172 H13	
3173 G13	
3174 F13	
3175 G9	
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3180 G13	
3182 F13	
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3189 F5	
3190 E13	
3191 F13	
3192 G13	
3193 G13	
3194 H13	
3195 H13	
3196 F13	
3197 G13	
3198 H13	
3199 G1	
4100 F10	
5150 C7	
5151 C9	
5152 C5	
5153 C7	
5154 C11	
5156 A4	
5157 F1	
5158 G2	
5159 G2	
6100 H3	
6101 H4	
6102 H4	
7150 B8	
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7152 A4	
7153 D4	
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7157 G13	
7158 F13	

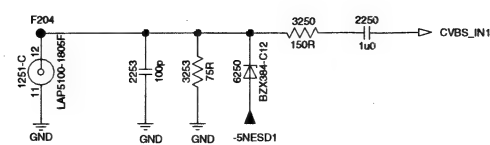
2

## VIDEO I/O

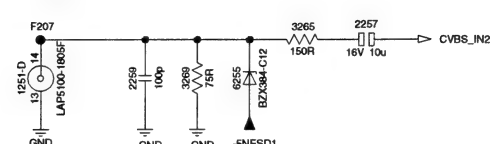
### Video connectors



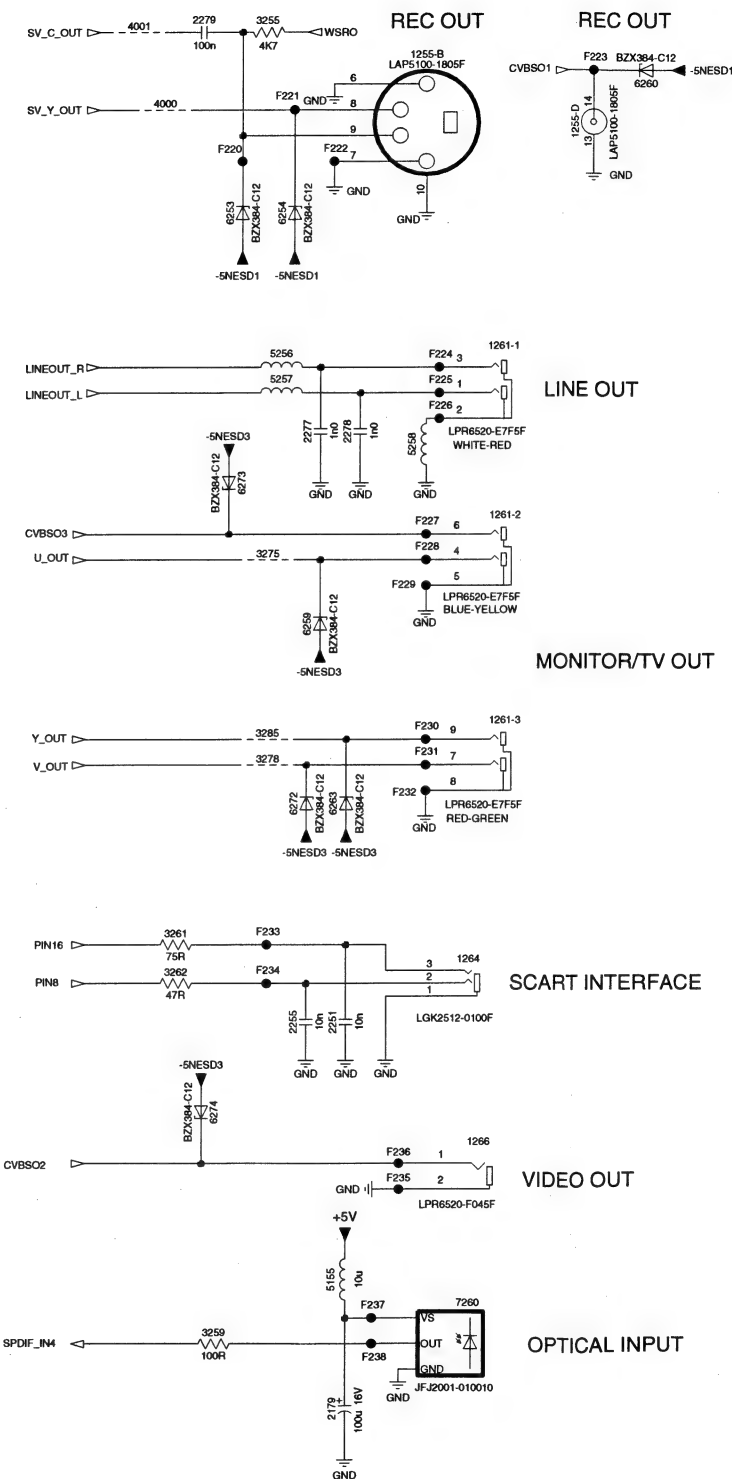
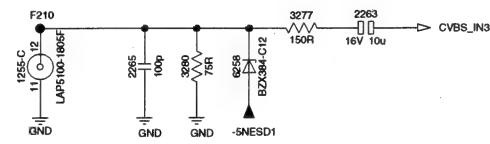
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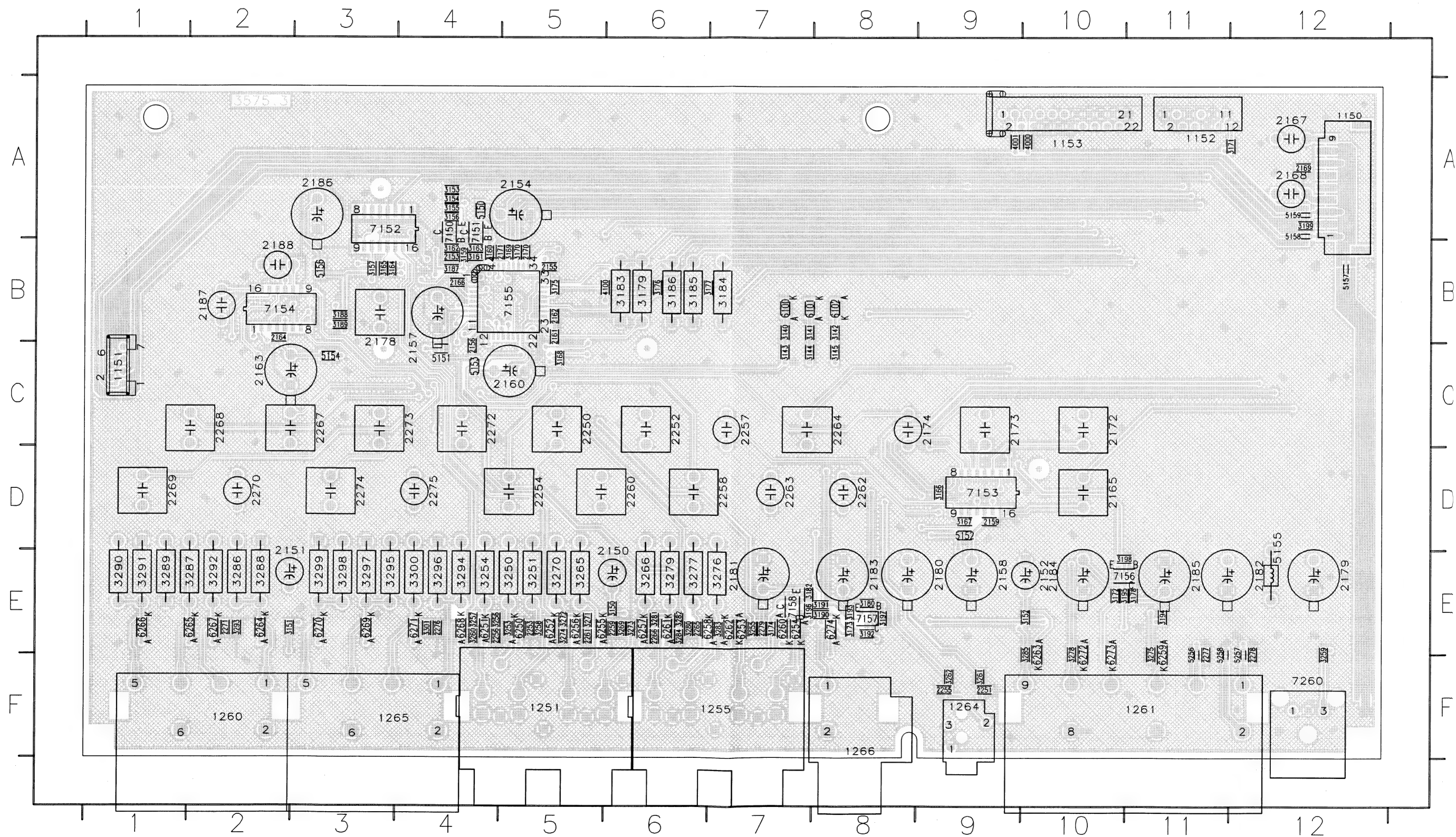
#### GSME IN

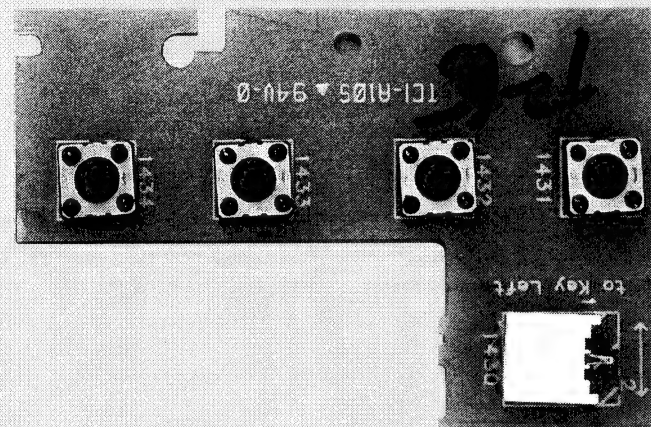


#### DVDR IN



1251-A A2	6261 E3
1251-B B2	6262 E4
1251-C A6	6263 F11
1251-D C6	6264 F3
1251-E A2	6265 G3
1255-A D2	6266 F3
1255-B A11	6267 F3
1255-C D6	6268 H3
1255-D B12	6269 I3
1255-E D2	6270 I3
1260-1 E2	6271 H3
1260-2 F2	6272 F11
1261-1 C12	6273 D10
1261-2 D12	6274 G10
1261-3 E12	7260 H11
1264 F11	F201 A3
1265-1 H2	F202 A3
1265-2 H2	F203 B3
1266 G12	F204 A6
2179 I11	F205 C3
2250 A8	F206 C3
2251 G11	F207 C6
2252 A4	F208 D3
2253 A6	F209 D3
2254 A4	F210 D6
2255 G11	F211 E2
2256 B3	F212 F2
2257 C8	F213 F2
2258 C5	F214 F2
2259 C8	F215 G2
2260 C5	F216 H2
2261 C3	F217 H2
2262 D5	F218 H2
2263 D8	F219 I2
2264 D5	F220 B10
2265 D6	F221 B10
2266 E3	F222 B11
2267 E5	F223 A12
2268 G5	F224 C11
2269 F5	F225 C11
2270 F5	F226 C11
2271 F2	F227 D11
2272 H5	F228 D11
2273 I5	F229 D11
2274 H5	F230 E11
2275 H5	F231 E11
2276 H2	F232 E11
2277 C11	F233 F10
2278 C11	F234 F10
2279 A10	F235 H11
3250 A7	F236 G11
3251 A4	F237 H11
3252 A4	F238 I11
3253 A10	
3254 B3	
3255 B4	
3256 B4	
3259 H10	
3260 B5	
3261 F10	
3262 F10	
3265 C7	
3266 C4	
3268 C7	
3270 C4	
3271 C3	
3272 C4	
3273 C4	
3274 C5	
3275 D10	
3276 D4	
3277 D7	
3278 E10	
3279 D4	
3280 D7	
3281 E3	
3282 E4	
3283 E4	
3284 E5	
3285 E10	
3286 E4	
3287 G4	
3288 F3	
3289 G3	
3290 F4	
3291 F3	
3292 F4	
3293 F3	
3294 H4	
3295 I4	
3296 H3	
3297 I3	
3298 H4	
3299 I3	
3300 H4	
3301 H3	
4000 B10	
4001 A10	
5155 H11	
5256 C10	
5257 C10	
5258 D11	
6250 A7	
6251 B3	
6252 B4	
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6255 C7	
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6259 E11	
6260 B12	





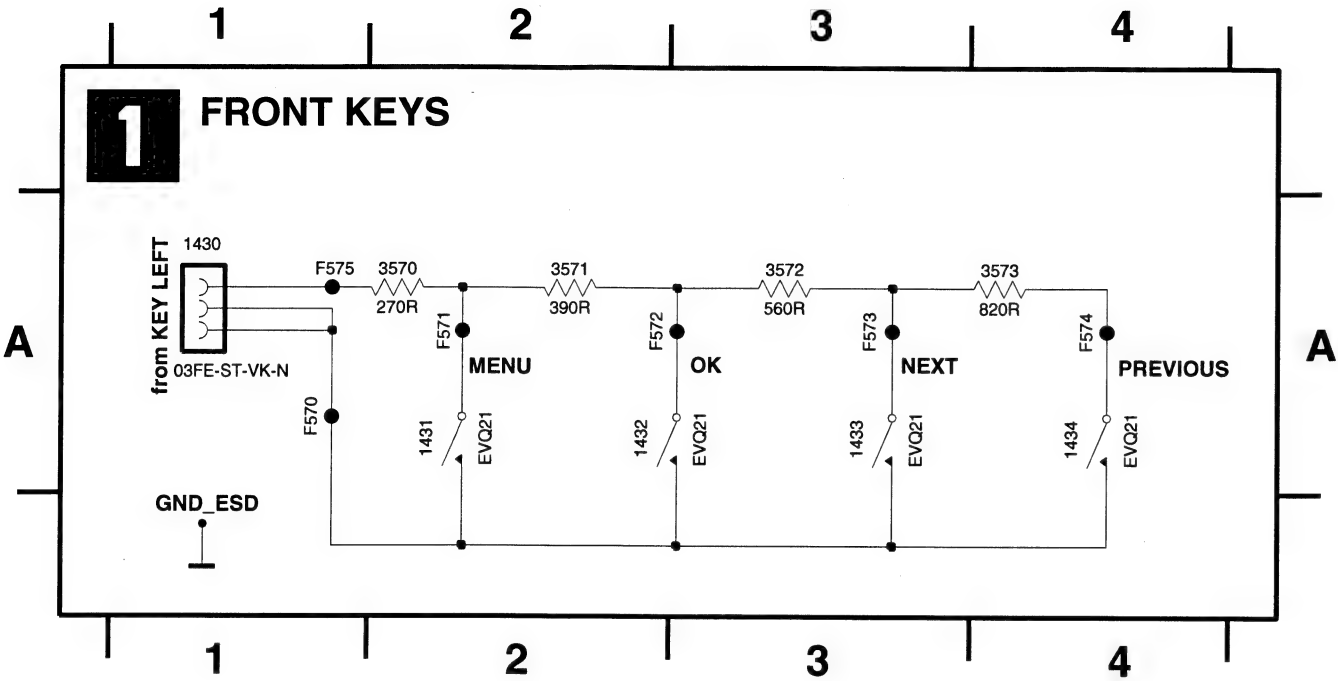
## Front Keys

**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

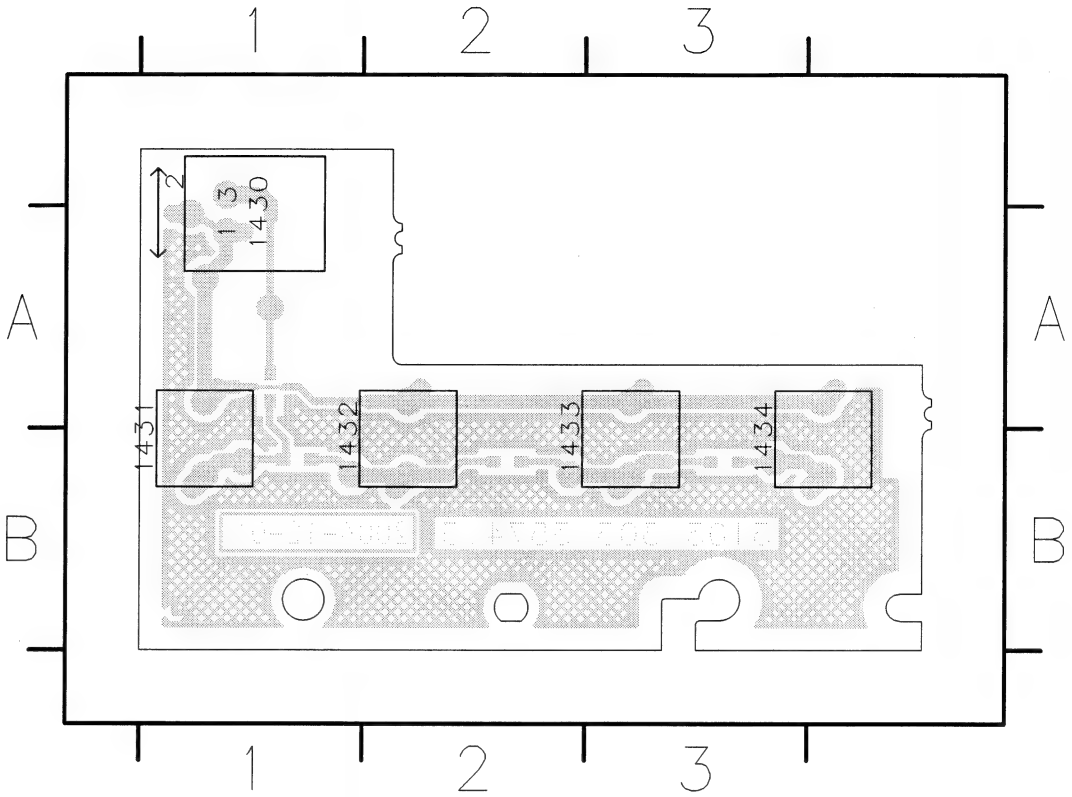
**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber "9965 000 26723".**

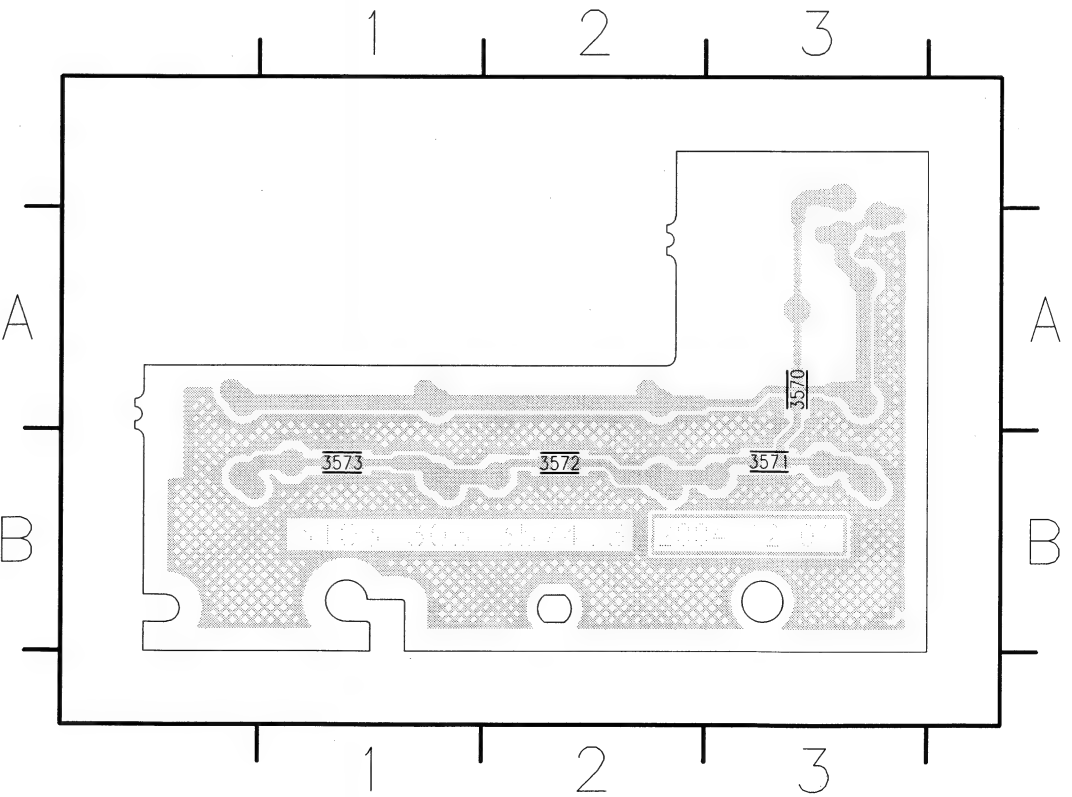
1430 A1 1432 A3 1434 A4 3571 A2 3573 A4 F571 A2 F573 A3 F575 A2  
1431 A2 1433 A3 3570 A2 3572 A3 F570 A1 F572 A3 F574 A4

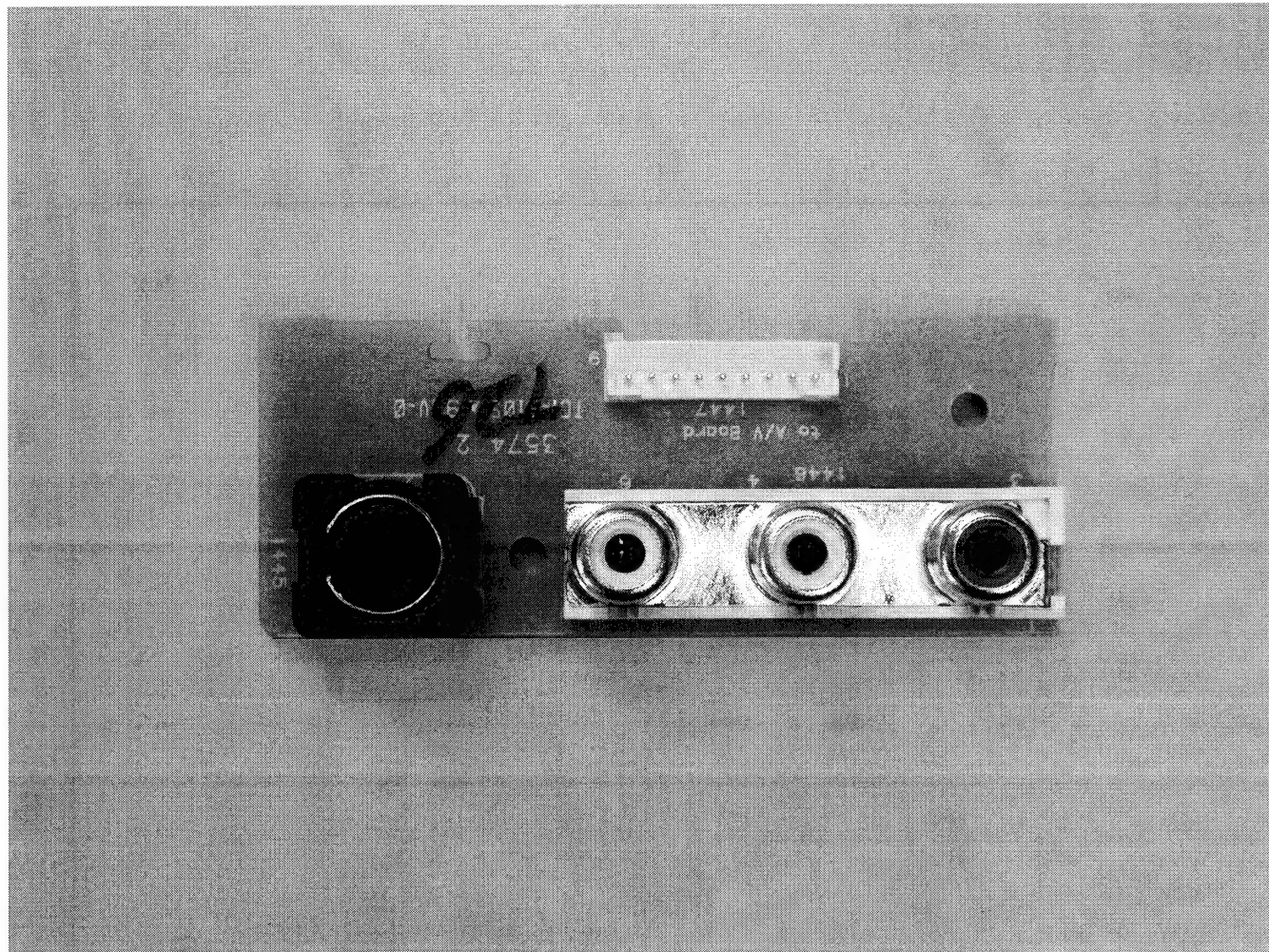


1430 A1 1431 B1 1432 B1 1433 B2 1434 B3



3570 A3 3571 B3 3572 B2 3573 B1





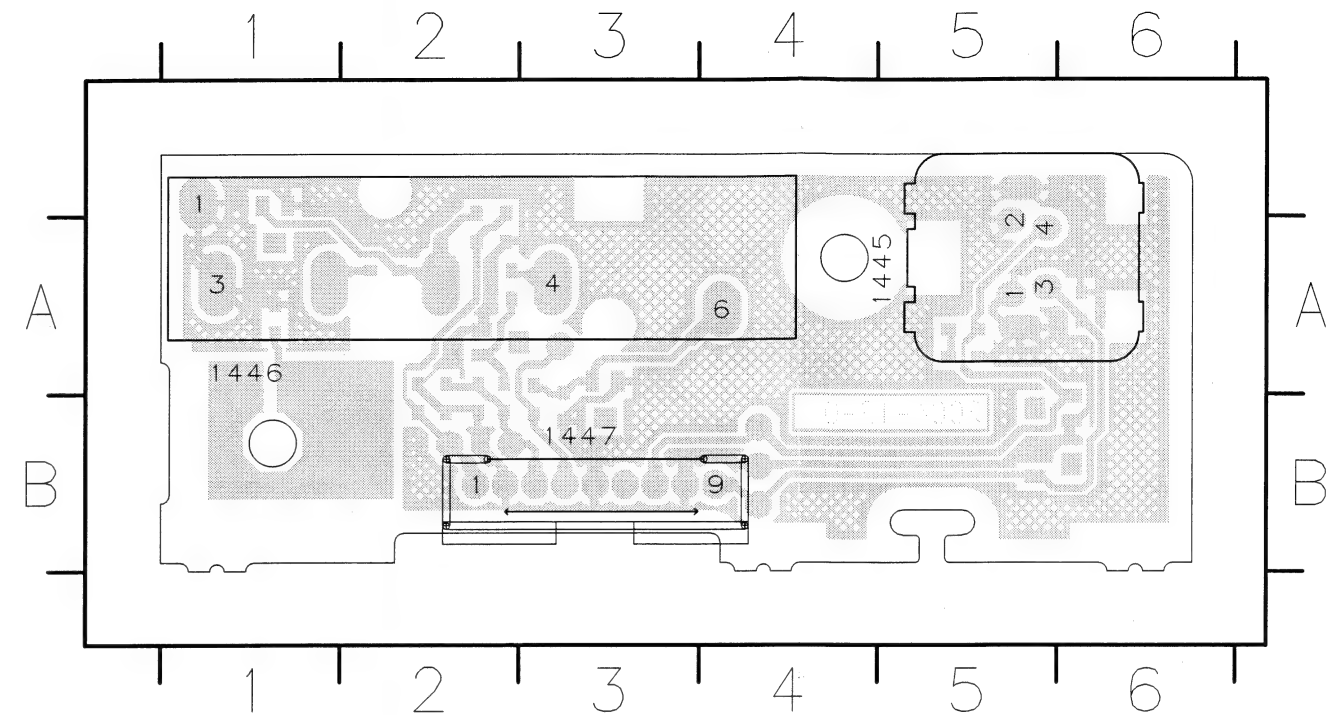
## Front I/O

**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

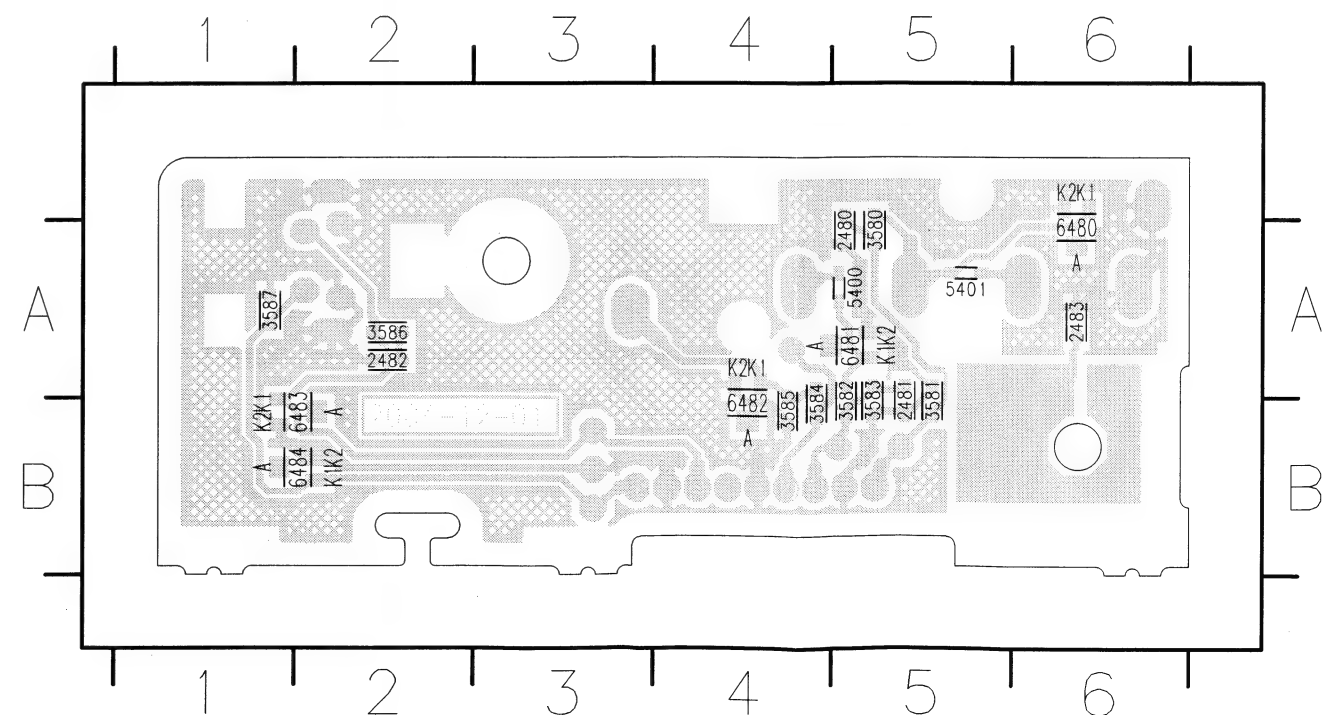
**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber "9965 000 26724".**

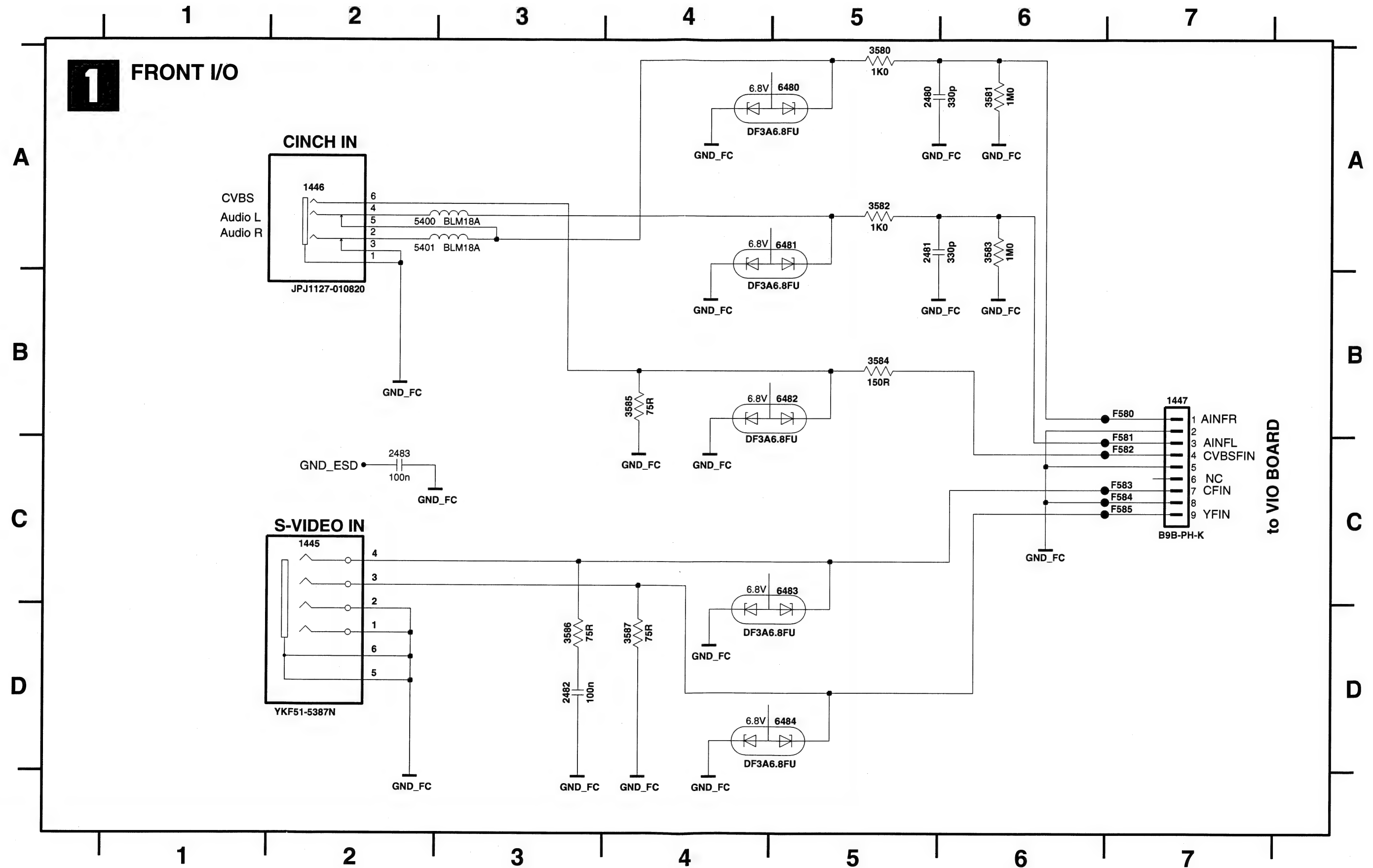
1445 A5 1446 A1 1447 B3

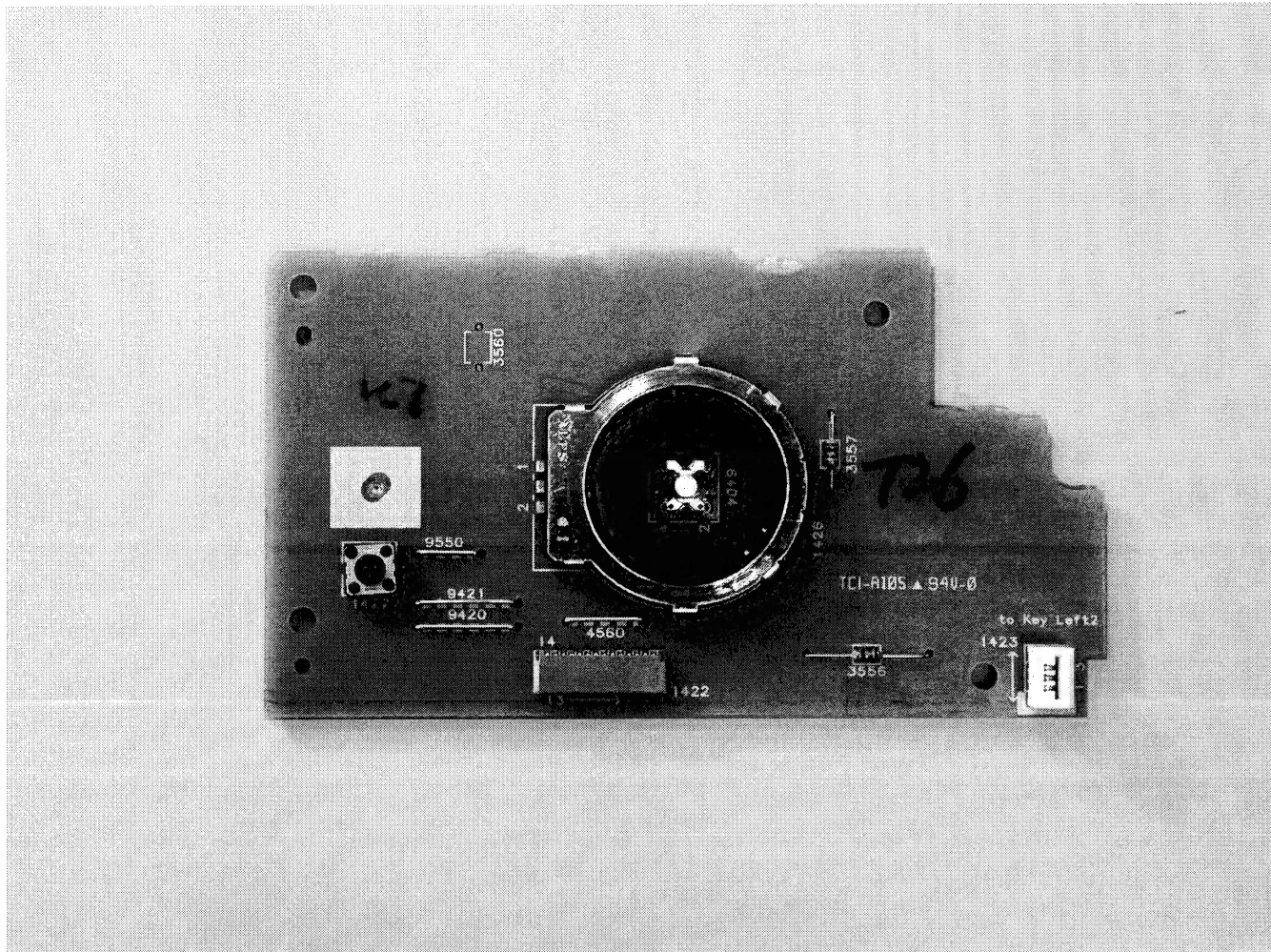


2480 A5	35880 A5	35884 B4	5400 A5	6482 B4
2481 B5	35881 B5	35885 B4	5401 A5	6483 B2
2482 A2	35882 B5	35886 A2	6480 A6	6484 B2
2483 A6	35883 B5	35887 A1	6481 A5	



1445 C2 1447 B7 2481 A5 2483 C2 3581 A6 3583 A6 3585 B4 3587 D4 5401 A2 6481 A5 6483 C5 F580 B7 F582 C7 F584 C7  
 1446 A2 2480 A5 2482 D3 3580 A5 3582 A5 3584 B5 3586 D3 5400 A2 6480 A5 6482 B5 6484 D5 F581 C7 F583 C7 F585 C7





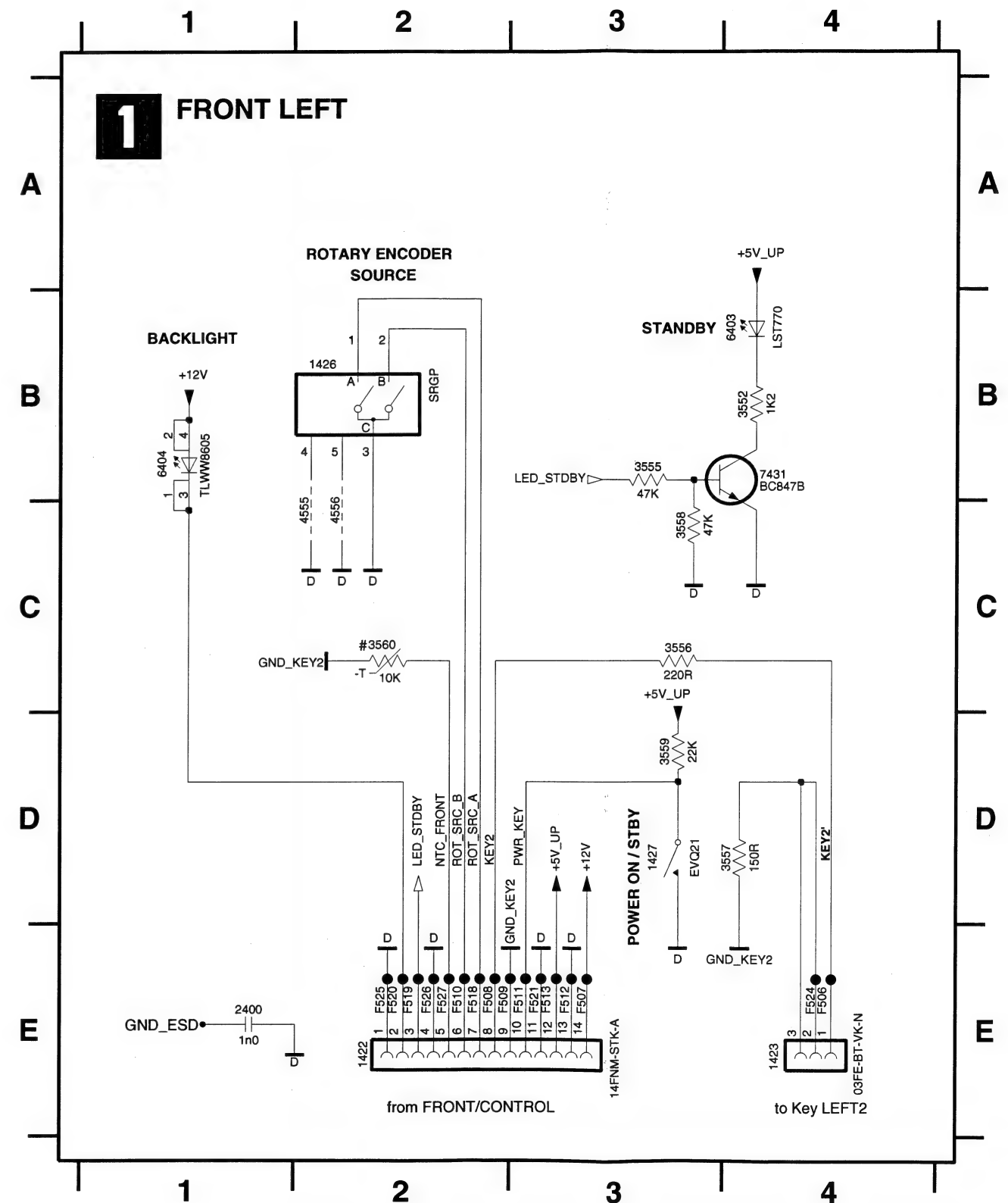
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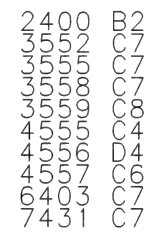
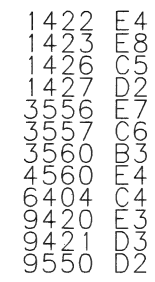
**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

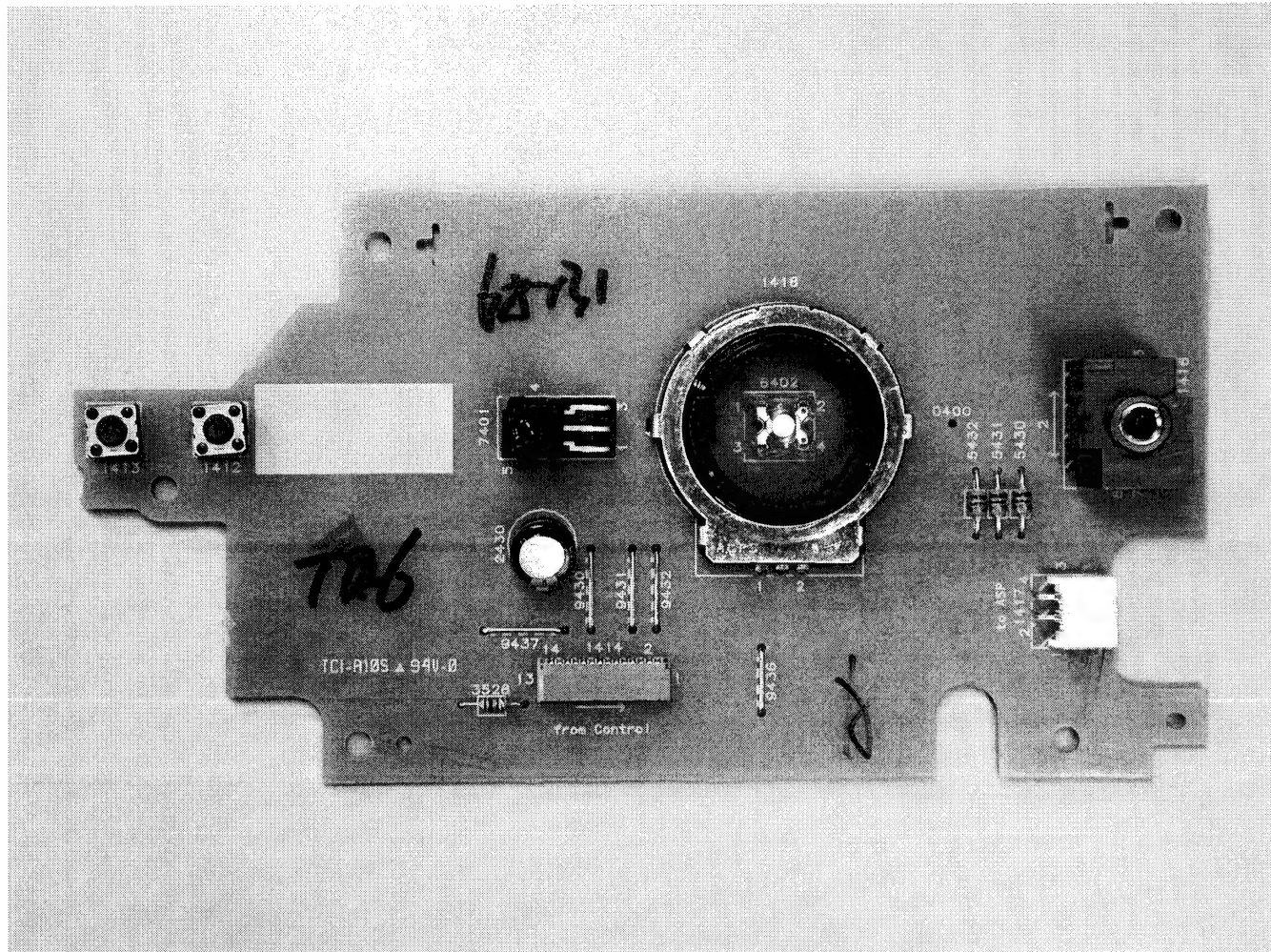
**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber “9965 000 26721”.**

1422 E2	1427 D3	3555 B3	3558 C3	4555 C2	6404 B1	F507 E3	F510 E2	F513 E3	F520 E2	F525 E2
1423 E4	2400 E1	3556 C3	3559 D3	4556 C2	7431 B4	F508 E2	F511 E3	F518 E2	F521 E3	F526 E2
1426 B2	3552 B4	3557 D4	3560 C2	6403 B4	F506 E4	F509 E2	F512 E3	F519 E2	F524 E4	F527 E2







## Front Right

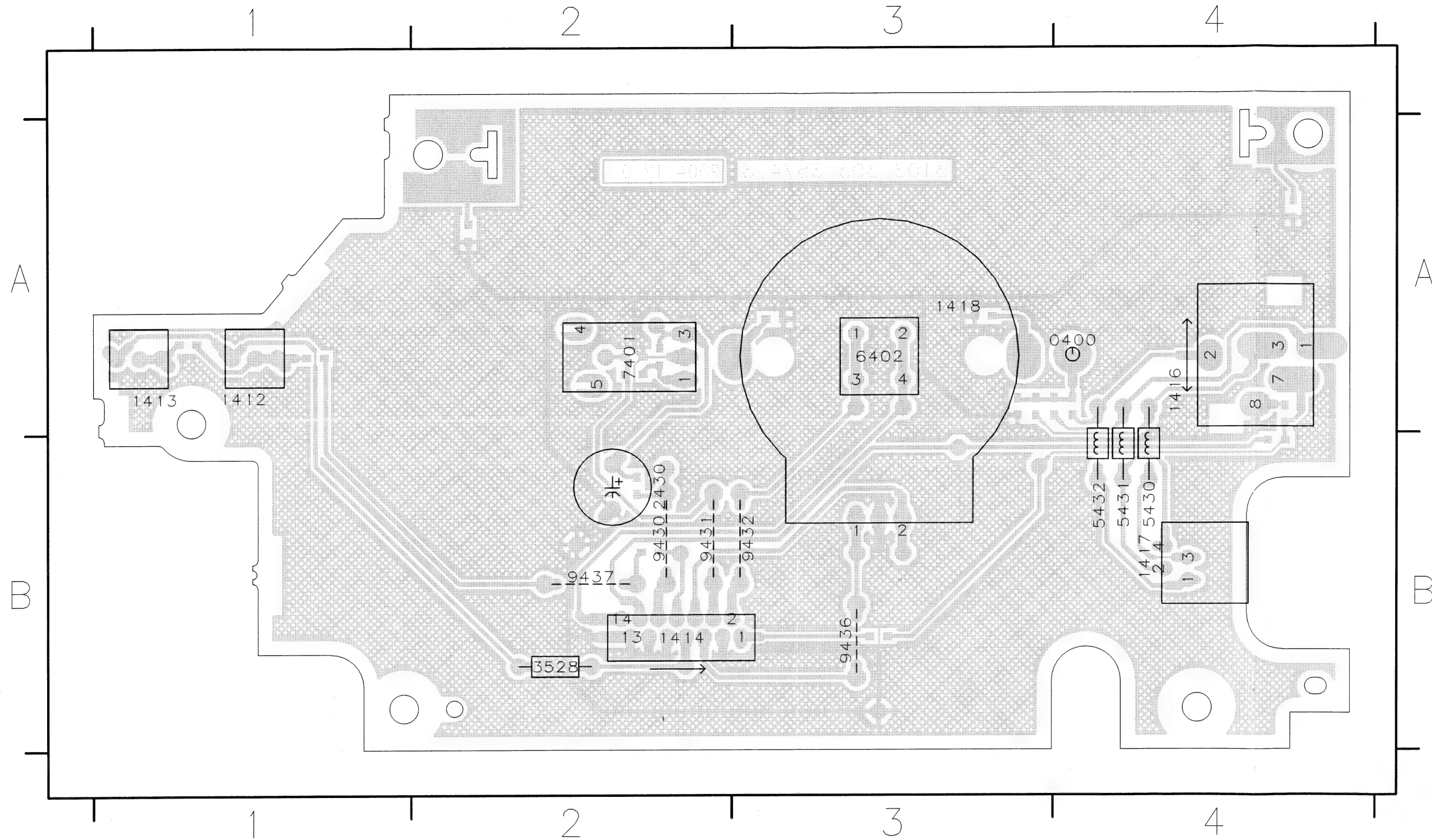
**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber "9965 000 26722".**

## 1 FRONT RIGHT

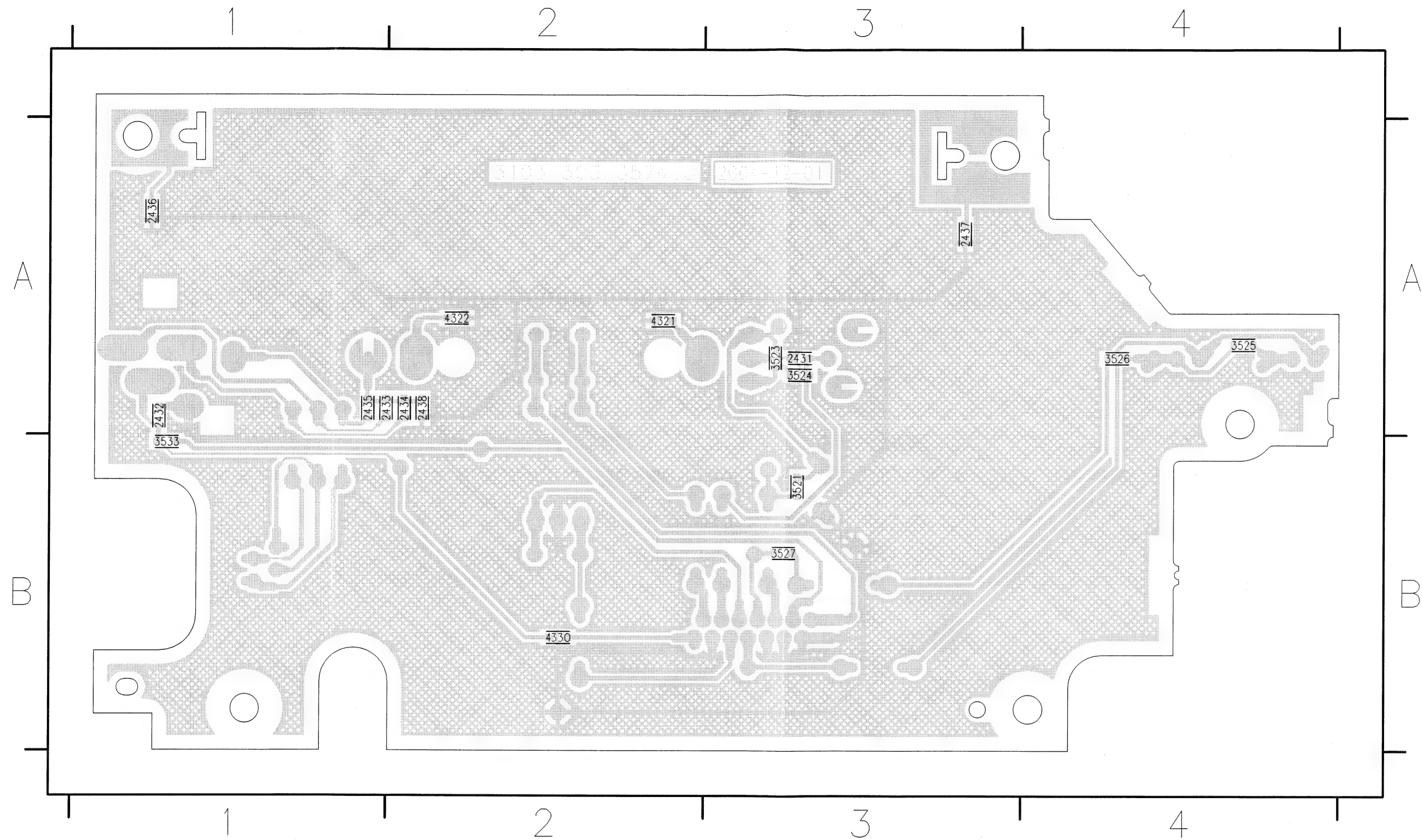




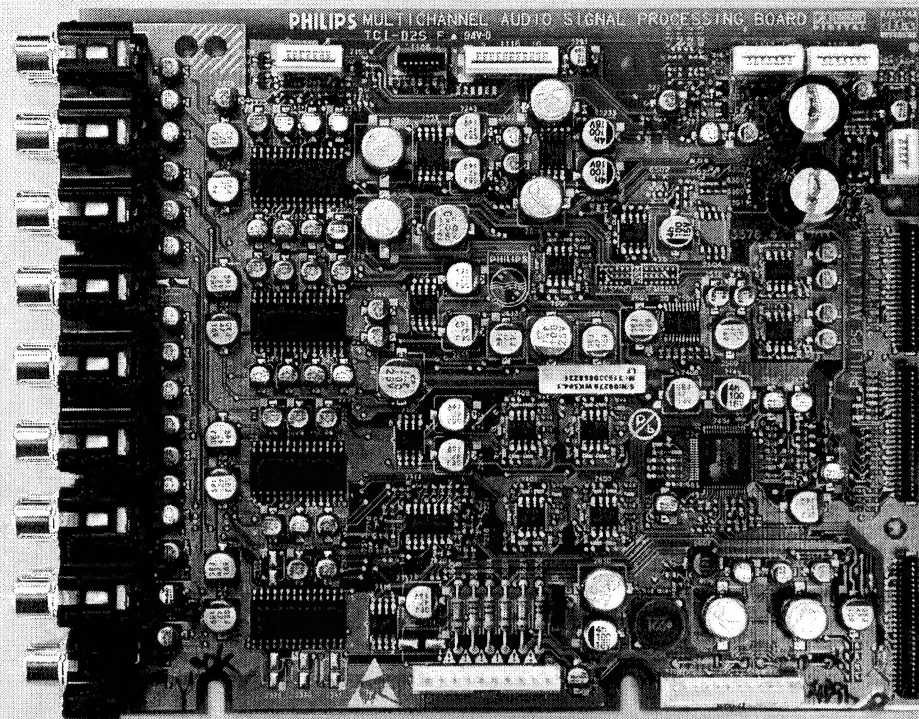
0400	A4
1412	A1
1413	A1
1414	B2
1416	A4
1417	B4
1418	A3
2430	B2
3528	B2
5430	B4
5431	B4
5432	B4
6402	A3
7401	A2
9430	B2
9431	B2
9432	B3
9436	B3
9437	B2

13-4

13-4



2431 A3  
2432 A1  
2433 A1  
2434 A2  
2435 A1  
2436 A1  
2437 A3  
2438 A2  
3521 B3  
3522 A3  
3523 A3  
3524 A4  
3525 A4  
3526 B3  
3527 B1  
4321 A2  
4322 A2  
4330 B2



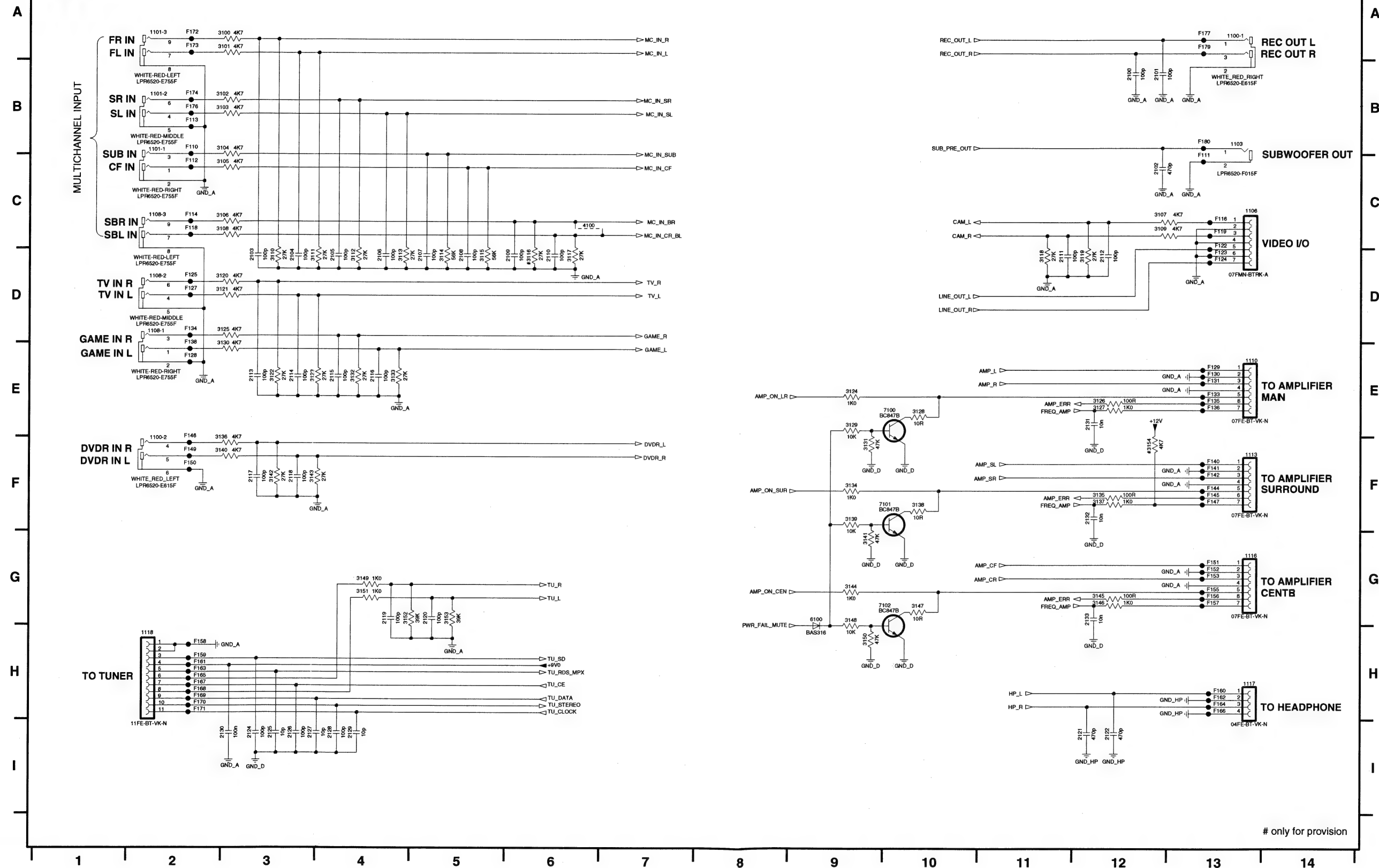
# Audio Signal Processing

**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

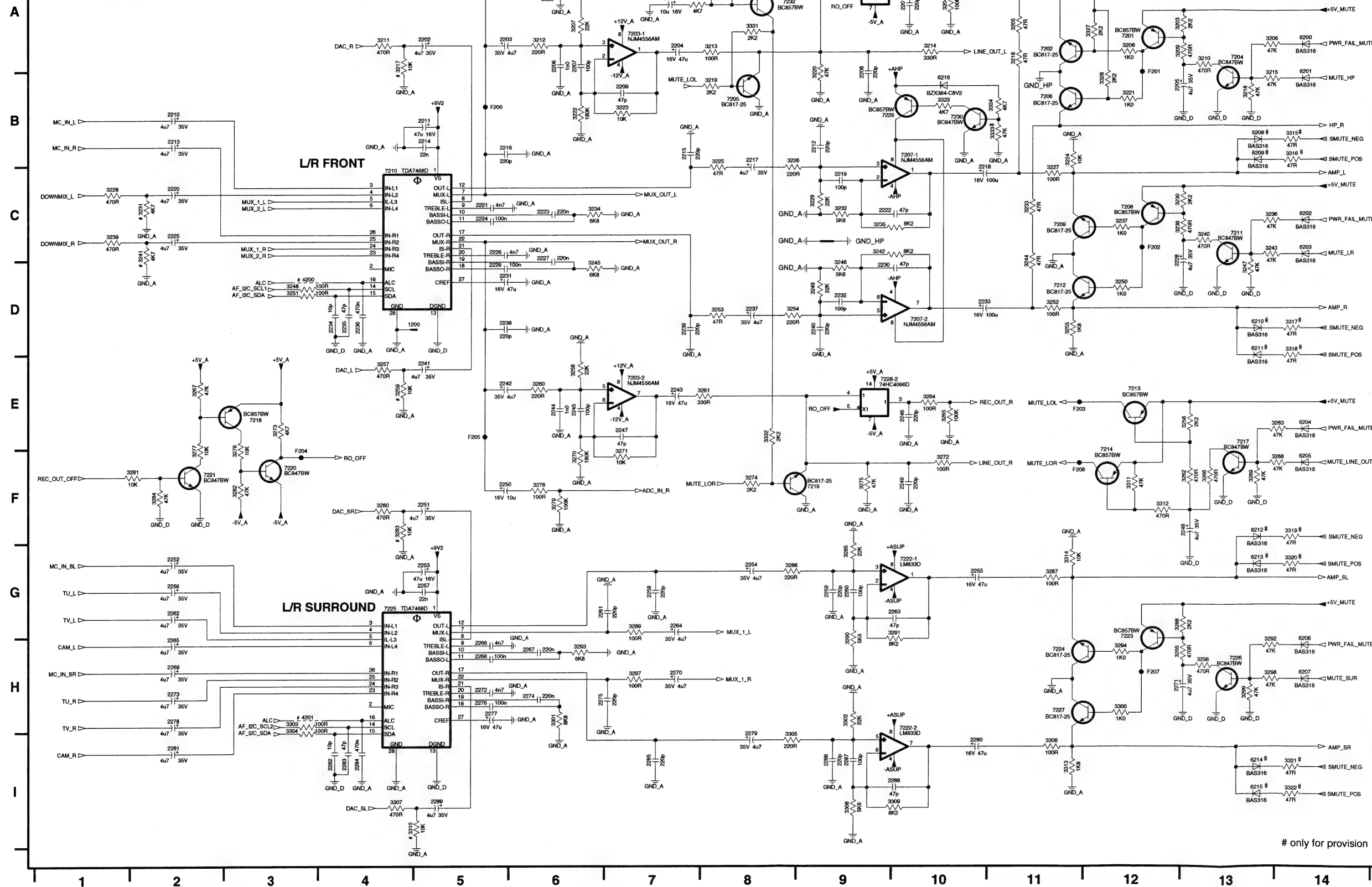
**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber "3103 308 68221".**

# 1 ASP BOARD CONNECTORS IN/OUT



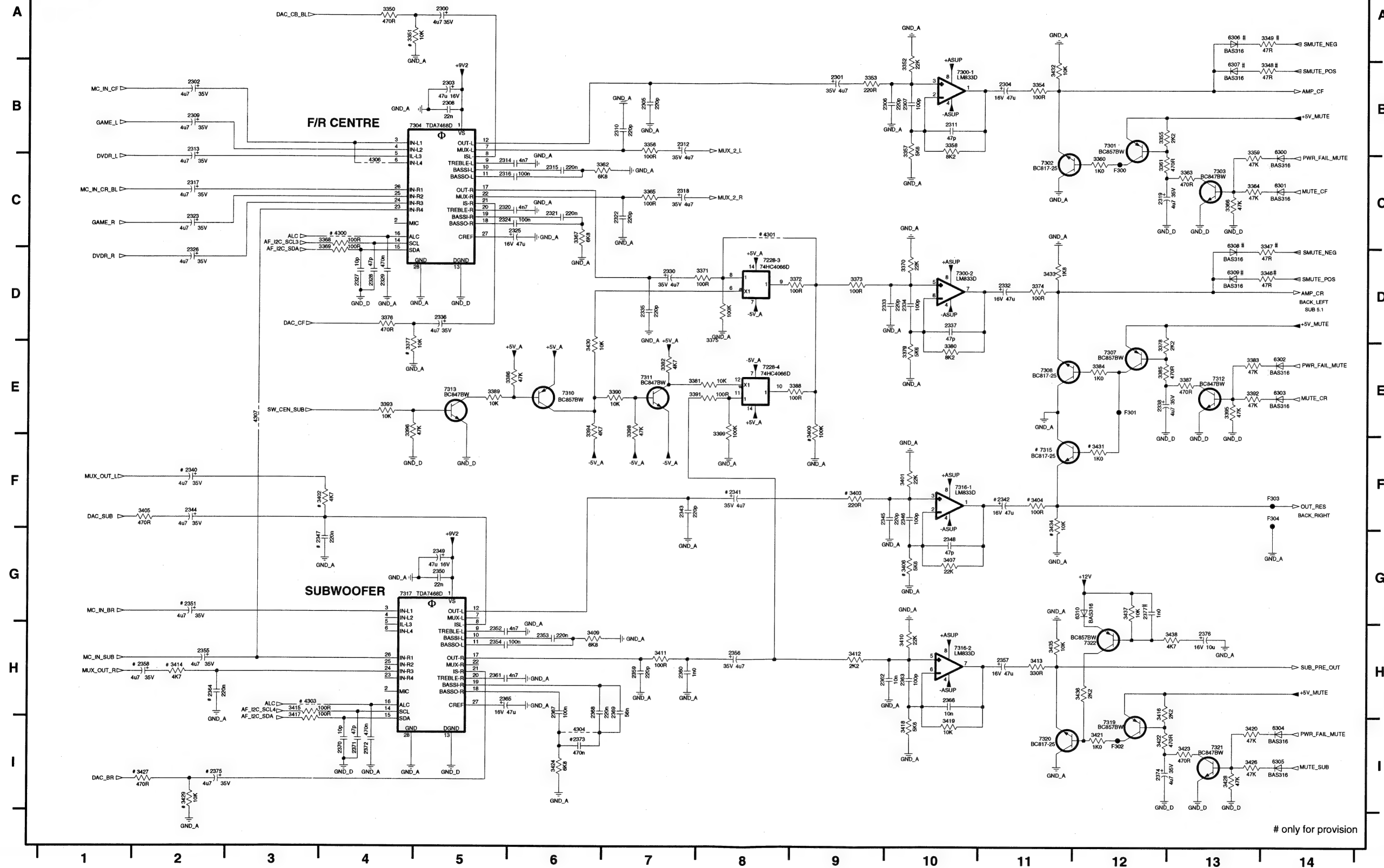
# **2 ASP BOARD** AUDIO PROCESSING 1



# only for provision

1200 D4	3233 C11	7207-1 B10
2200 A5	3234 C6	7207-2 D10
2201 A10	3235 C9	7208 C12
2202 A5	3236 C13	7209 C11
2203 A5	3237 C12	7210 C4
2204 A7	3238 C12	7211 C13
2205 B12	3239 C1	7212 D11
2206 A6	3240 C13	7213 E12
2207 A6	3241 C2	7214 E12
2208 B9	3242 C9	7215 E13
2209 B7	3243 C3	7216 E3
2210 B2	3244 D11	7217 F9
2211 B5	3245 D6	7220 F3
2212 B9	3246 D9	7221 F2
2213 B2	3247 D13	7222-1 G10
2214 B5	3248 D3	7222-2 H10
2215 B7	3249 D9	7223 H12
2216 B5	3250 D12	7224 H11
2217 B8	3251 D3	7225 G4
2218 C10	3252 D11	7226 H13
2219 C9	3253 D8	7227 H11
2220 C2	3254 D8	7228-1 A10
2221 C5	3255 D11	7228-2 E10
2222 C9	3256 E13	7229 B10
2223 C6	3257 E4	7230 B10
2224 C5	3258 E6	7231 A12
2225 C2	3259 E4	7232 A8
2226 C5	3260 E6	7200 B5
2227 C6	3261 E8	7201 B12
2228 D12	3262 F13	7202 C12
2229 D5	3263 E14	7203 E11
2230 D9	3264 E10	7204 F3
2231 D5	3265 E10	7205 E5
2232 D9	3266 F13	7207 H12
2233 D10	3267 E2	7208 F11
2234 D4	3268 F14	
2235 D4	3269 F19	
2236 D4	3270 F6	
2237 D8	3271 F7	
2238 D5	3272 F10	
2239 D7	3273 E3	
2240 D9	3274 F8	
2241 E5	3275 F9	
2242 E5	3276 F3	
2243 E7	3277 F2	
2244 E6	3278 F6	
2245 E6	3279 F6	
2246 E10	3280 F4	
2247 E7	3281 F2	
2248 F13	3282 F3	
2249 F10	3283 F4	
2250 F5	3284 F2	
2251 F5	3285 G9	
2252 G2	3286 G8	
2253 G5	3287 G11	
2254 G8	3288 G12	
2255 G10	3289 G7	
2256 G2	3290 H9	
2257 G5	3291 G10	
2258 G7	3292 H13	
2259 G9	3293 H6	
2260 G9	3294 H12	
2261 G6	3295 H12	
2262 G2	3296 H13	
2263 G10	3297 H7	
2264 G7	3298 H13	
2265 H2	3299 H13	
2266 H5	3300 H12	
2267 H6	3301 H6	
2268 H5	3302 H9	
2269 H2	3303 H3	
2270 H7	3304 H3	
2271 H12	3305 H8	
2272 H5	3306 H11	
2273 H2	3307 H4	
2274 H6	3308 H9	
2275 H6	3309 I10	
2276 H5	3310 I4	
2277 H5	3311 F12	
2278 H2	3312 F12	
2279 H6	3313 I11	
2280 I10	3314 G11	
2281 I2	3315 B14	
2282 I4	3316 B14	
2283 I4	3317 D14	
2284 I4	3318 D14	
2285 I7	3319 F14	
2286 I9	3320 G14	
2287 I9	3321 I4	
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2290 A13	3324 B11	
2291 A7	3325 A12	
2292 A12	3326 A13	
2293 A8	3327 A12	
2294 A6	3328 B12	
2295 A6	3329 A8	
2296 A10	3330 A7	
2297 A12	3331 A8	
2298 A10	3332 E8	
2299 A11	3333 B11	
2300 A13	3334 D3	
2301 A6	3335 H3	
2302 A7	3336 A7	
2303 A12	3337 A12	
2304 A10	3338 E8	
2305 A11	3339 B11	
2306 A13	3340 D3	
2307 A6	3341 H3	
2308 A12	3342 A14	
2309 A12	3343 B14	
2310 A13	3344 C14	
2311 A4	3345 E14	
2312 A6	3346 F14	
2313 A8	3347 H14	
2314 A10	3348 H14	
2315 B13	3349 B13	
2316 A11	3350 B13	
2317 A4	3351 B13	
2318 B13	3352 D13	
2319 B8	3353 D13	
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2321 B12	3355 G13	
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2323 B7	3357 B11	
2324 B11	3358 B11	
2325 B8	3359 A8	
2326 B8	3360 A12	
2327 C11	3361 A11	
2328 C1	3362 A7	
2329 C9	3363 E7	
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# **3 ASP BOARD** AUDIO PROCESSING 2



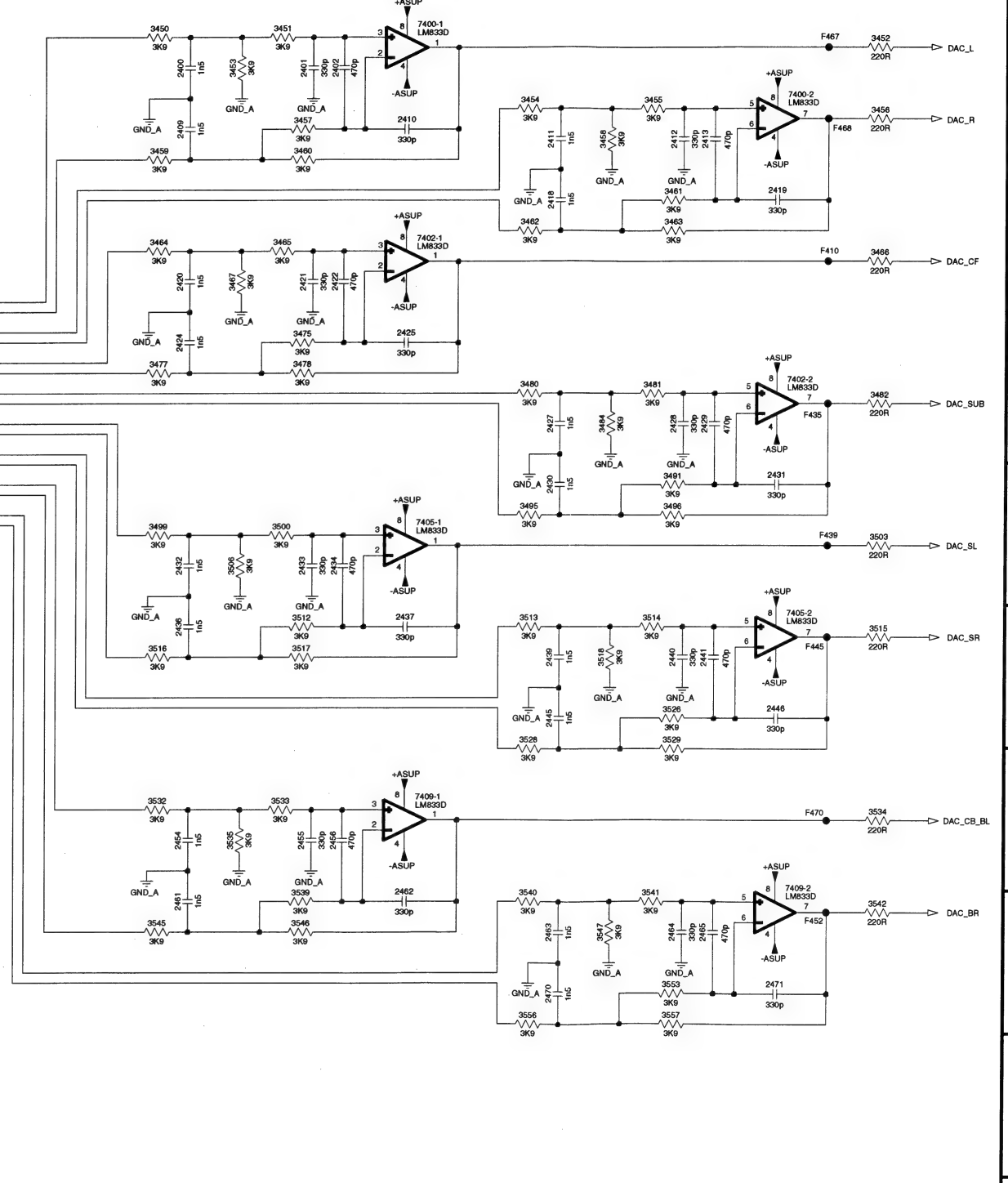
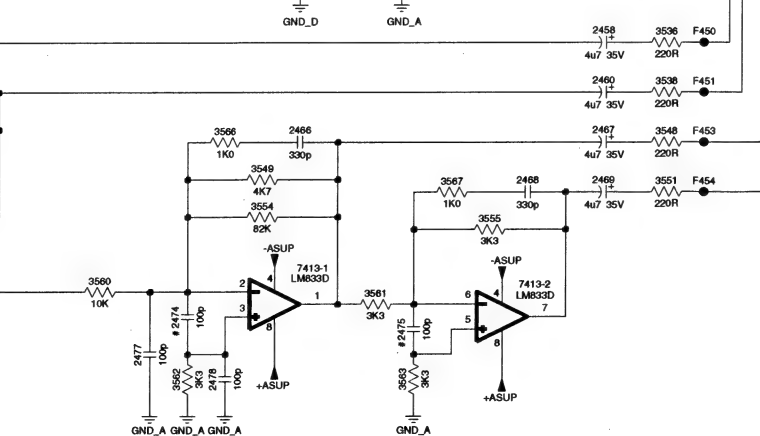
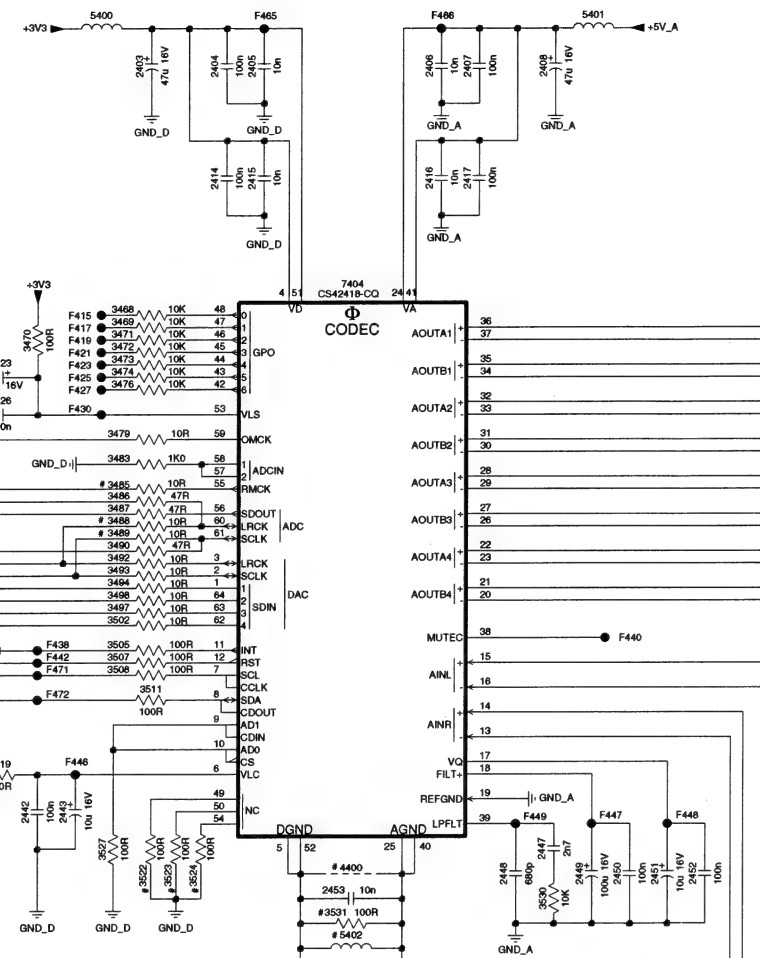
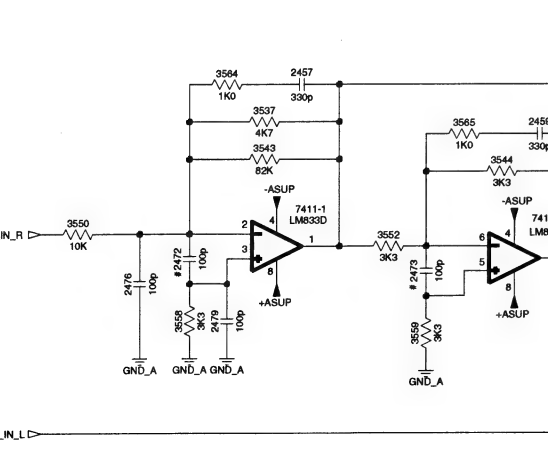
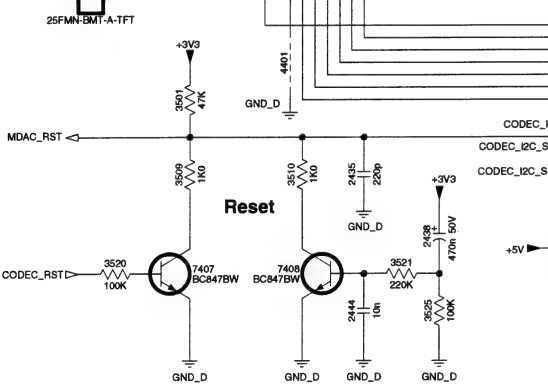
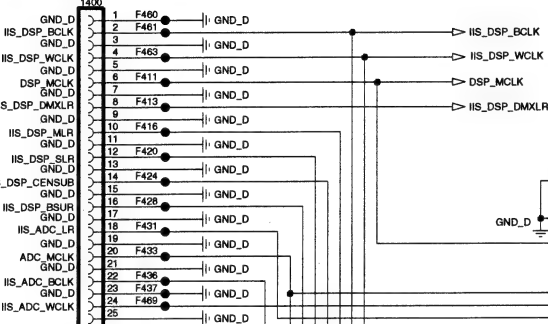
# only for provision

2300 A5	3386 E6
2301 B9	3387 E13
2302 B2	3388 E9
2303 B5	3389 E5
2304 B11	3390 E7
2305 B7	3391 E7
2306 B9	3392 E13
2307 B10	3393 E4
2308 B5	3394 E6
2309 B2	3395 E13
2310 B7	3396 E4
2311 B10	3397 E7
2312 B7	3398 E8
2313 B2	3400 E9
2314 C5	3401 F10
2315 C6	3402 F4
2316 C5	3403 F9
2317 C2	3404 F11
2318 C7	3405 F2
2319 C12	3406 G10
2320 C5	3407 G10
2321 C6	3408 H6
2322 C7	3410 H10
2323 C2	3411 H7
2324 C5	3412 H9
2325 C6	3413 H11
2326 D2	3414 H2
2327 D4	3415 H3
2328 D4	3416 H12
2329 D4	3417 I3
2330 D7	3418 I10
2332 D11	3419 I10
2333 D9	3420 I13
2334 D10	3421 I12
2335 D7	3422 I12
2336 D5	3423 I13
2337 D10	3424 I6
2338 E12	3426 I13
2340 F2	3427 I2
2341 F8	3428 I13
2342 F11	3429 I2
2343 F7	3430 E6
2344 F2	3431 F12
2345 F9	3432 B11
2346 F10	3433 D11
2347 G3	3434 F11
2348 G10	3435 H11
2349 G5	3436 H12
2350 G6	3437 G12
2351 G2	3438 H13
2352 H5	3439 C4
2353 H6	3439 C8
2354 H5	3439 H3
2355 H2	3439 H4
2356 H8	3439 H4
2357 H11	3439 E3
2358 H2	3439 B14
2359 H7	3439 C14
2360 H7	3439 E14
2361 H5	3439 E14
2362 H9	3439 I14
2363 H10	3439 I14
2364 H2	3439 A13
2365 H5	3439 B13
2366 H10	3439 C13
2367 H6	3439 D13
2368 H6	3439 G12
2369 H7	7228-3 D8
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2371 I4	7300-1 B11
2372 I4	7300-2 D11
2373 I6	7301 B12
2374 I12	7302 C11
2375 I2	7303 C13
2376 H13	7304 B5
2377 G12	7307 E12
2378 D14	7308 E11
2379 C14	7310 E6
2380 B14	7311 E7
2381 A14	7312 E13
2382 A4	7313 E5
2383 A4	7315 F11
2384 B10	7316-1 F10
2385 B9	7316-2 H10
2386 B11	7317 G4
2387 B12	7319 I12
2388 B7	7320 I11
2389 B10	7321 I13
2390 B13	7322 H12
2391 C12	7300 C12
2392 C12	7301 E12
2393 C6	7302 I12
2394 C13	7303 F14
2395 C7	7304 F14
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2397 C8	
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2399 D4	
2400 D10	
2401 D8	
2402 D9	
2403 D9	
2404 D11	
2405 D8	
2406 D4	
2407 E4	
2408 E12	
2409 E10	
2410 E7	
2411 E7	
2412 E13	
2413 E12	

1400 B1	2409 A10	2419 B14	2429 C14	2439 E12	2449 F7	2459 G4	2469 G8	2479 H2	3459 A10	3469 B5	3479 C5	3489 D5	3499 D10	3510 E3	3520 E2	3530 F7	3540 G12	3550 G1	3560 H5	5400 A5	7407 E2	F413 B2	F427 C5	F440 D8	F453 G8	F470 F14
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# 4 ASP BOARD AUDIO MULTICHANNEL ADC DAC

TO VPB MDM

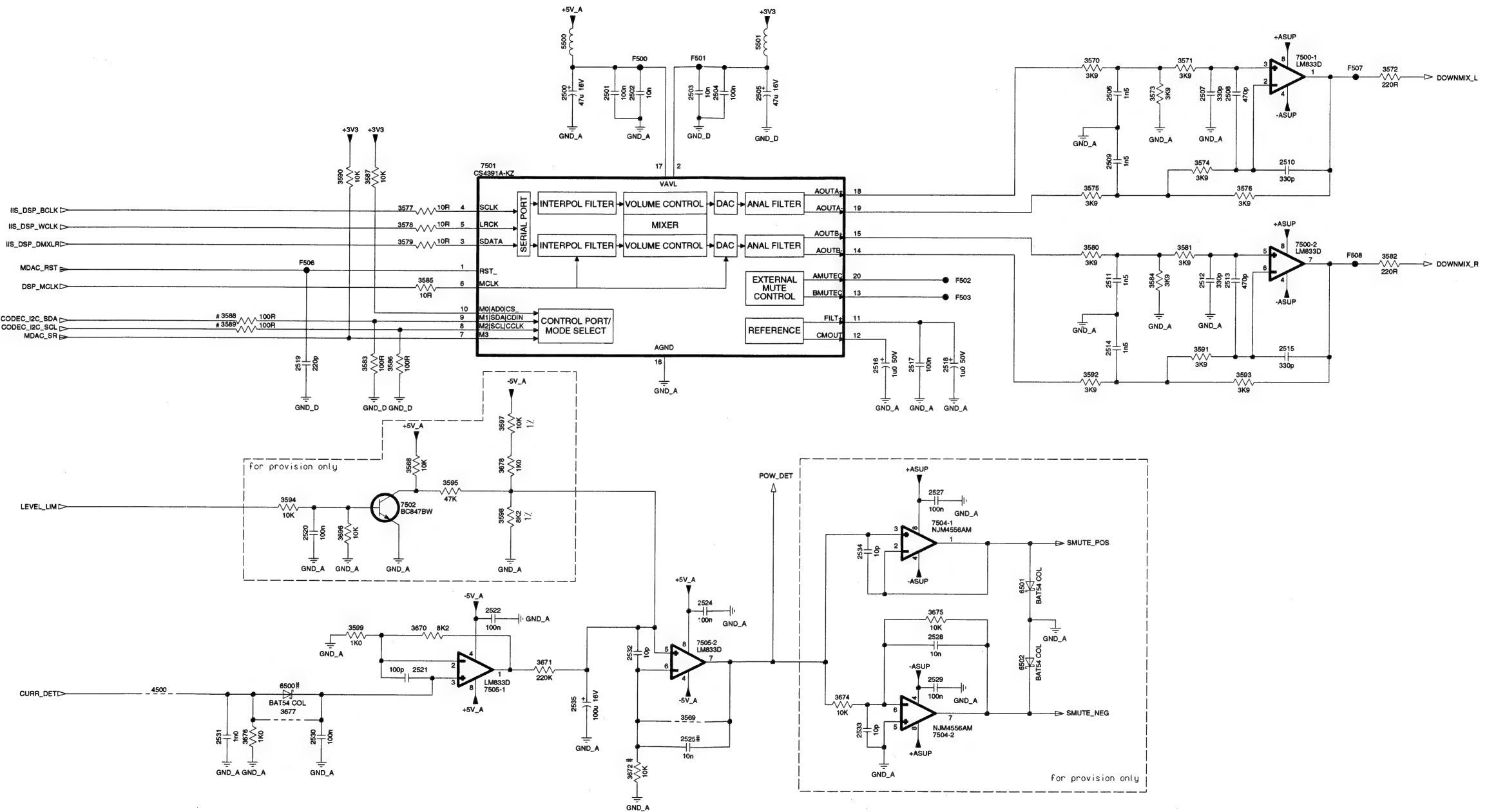


# only for provision

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# ASP BOARD AUDIO STEREO DAC / OVERLOAD PROTECTION



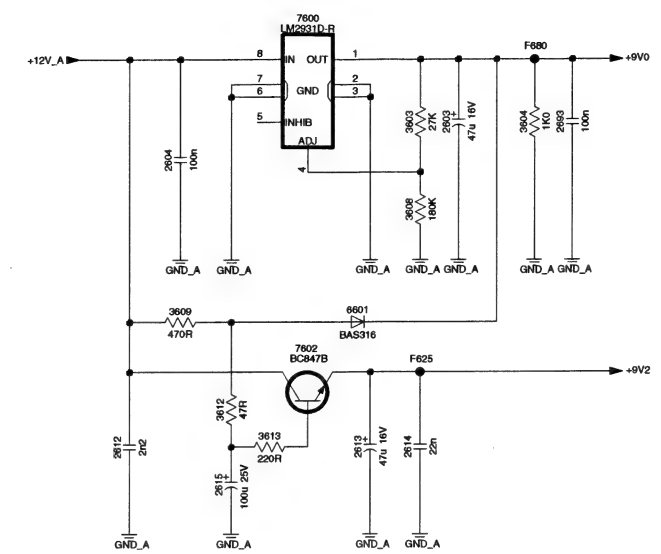
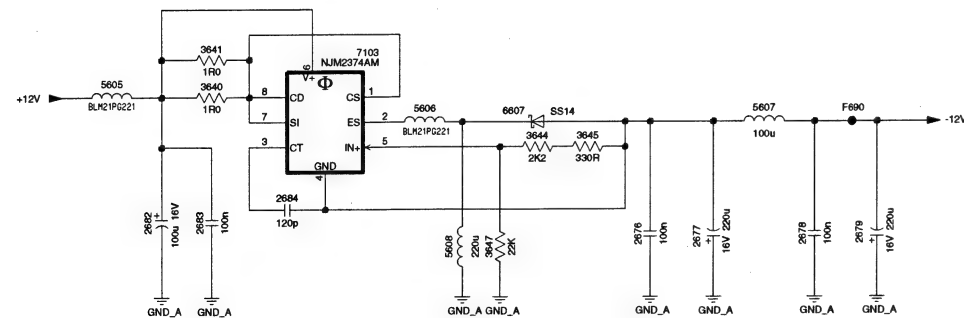
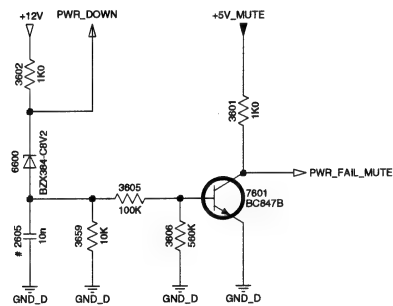
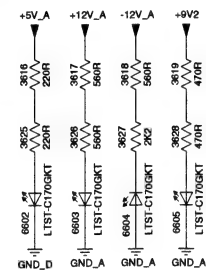
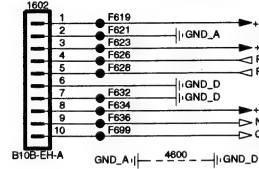
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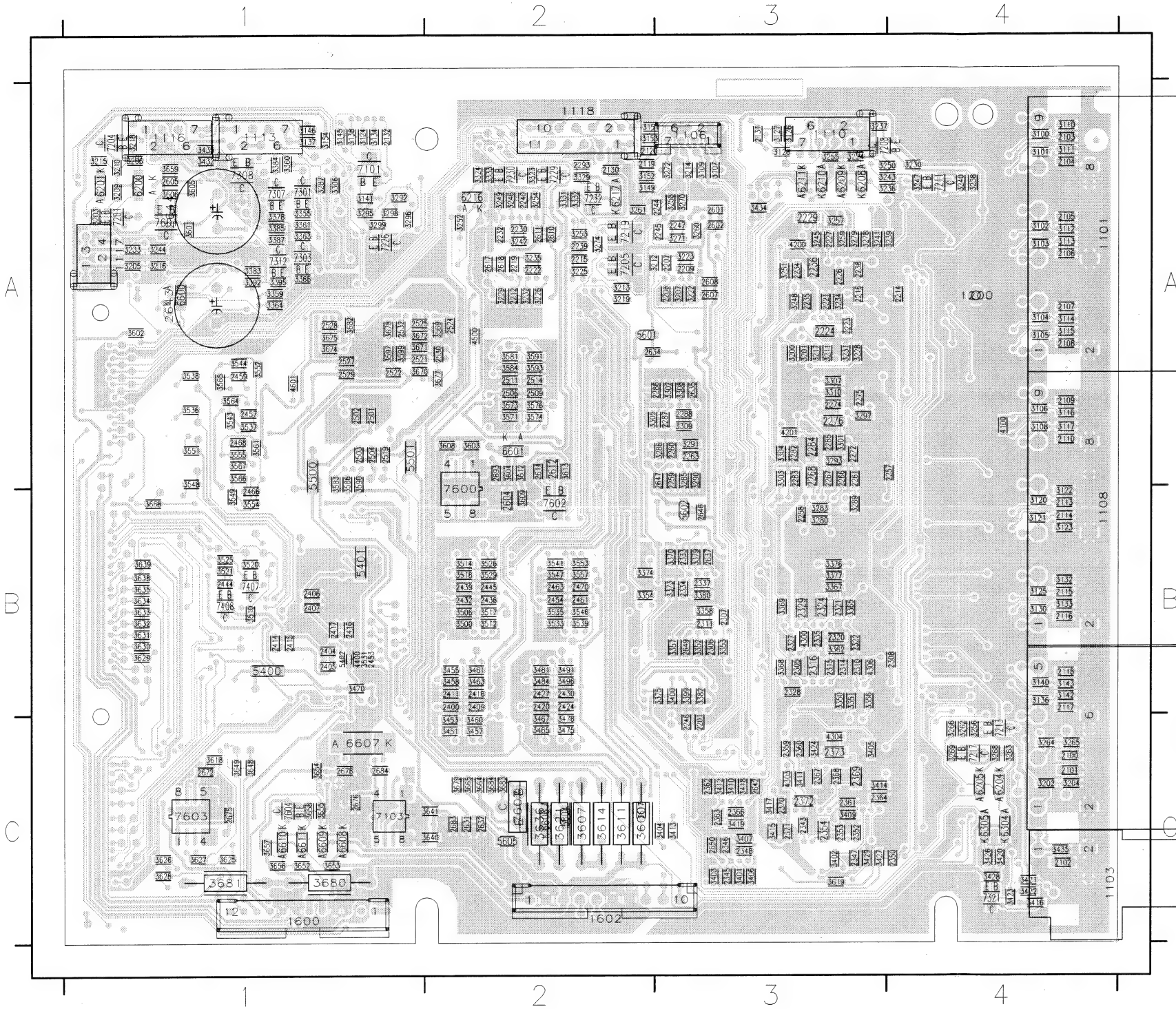
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ASP BOARD  
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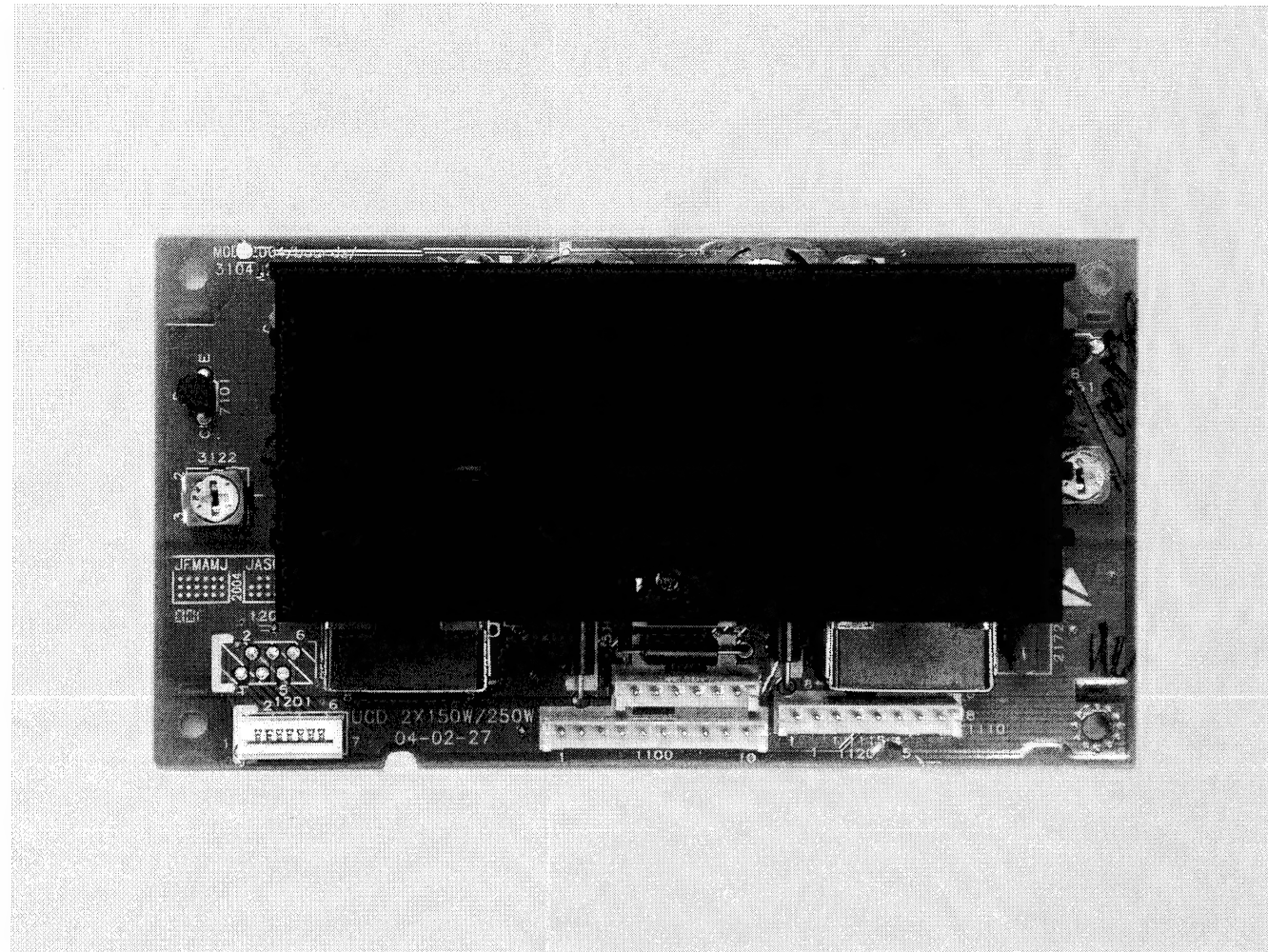
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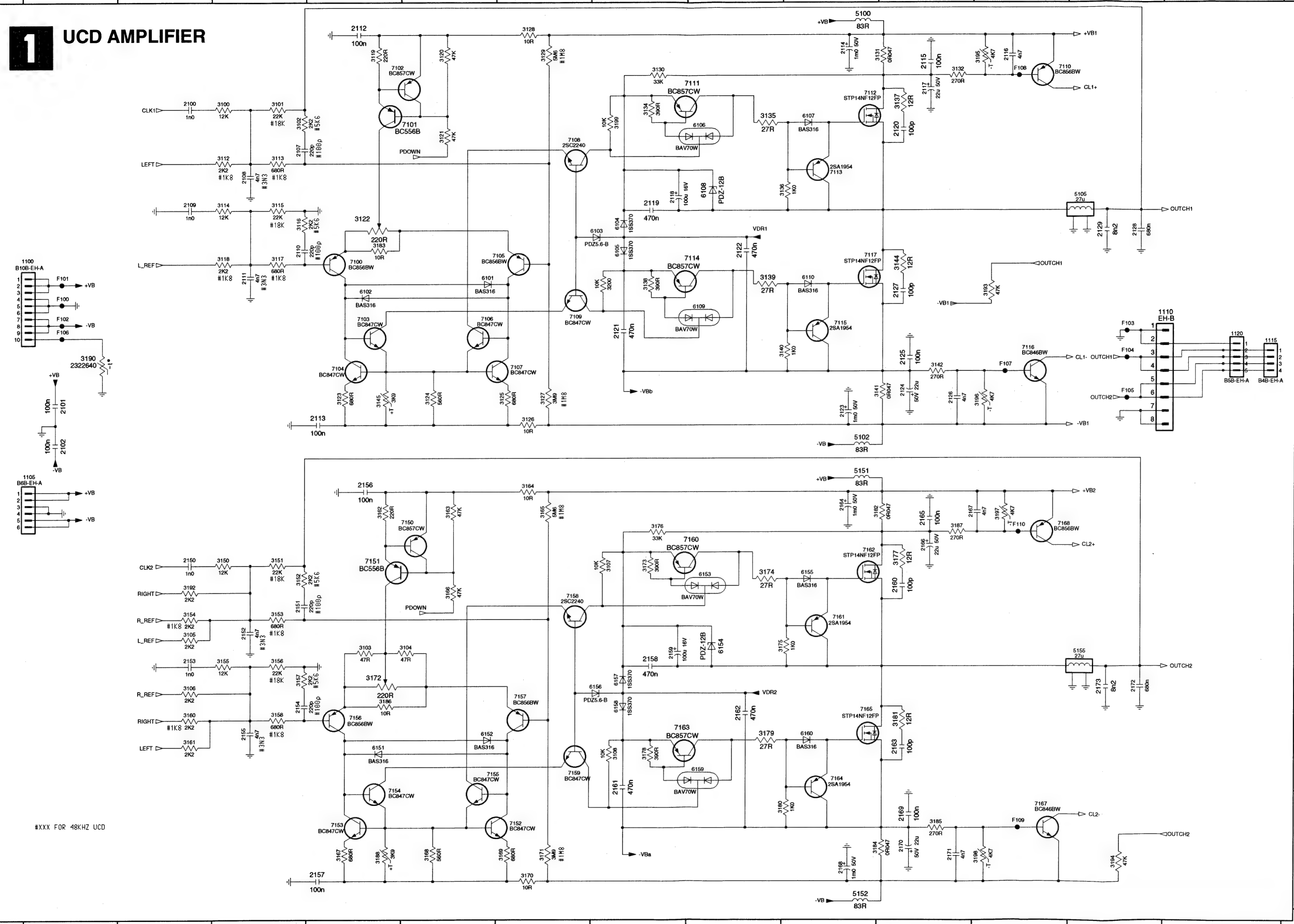
## UCD Amplifier

**This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.**

**In case of defects please replace the entire board.**

**Boards can be ordered with codenumber "3139 118 58631".**

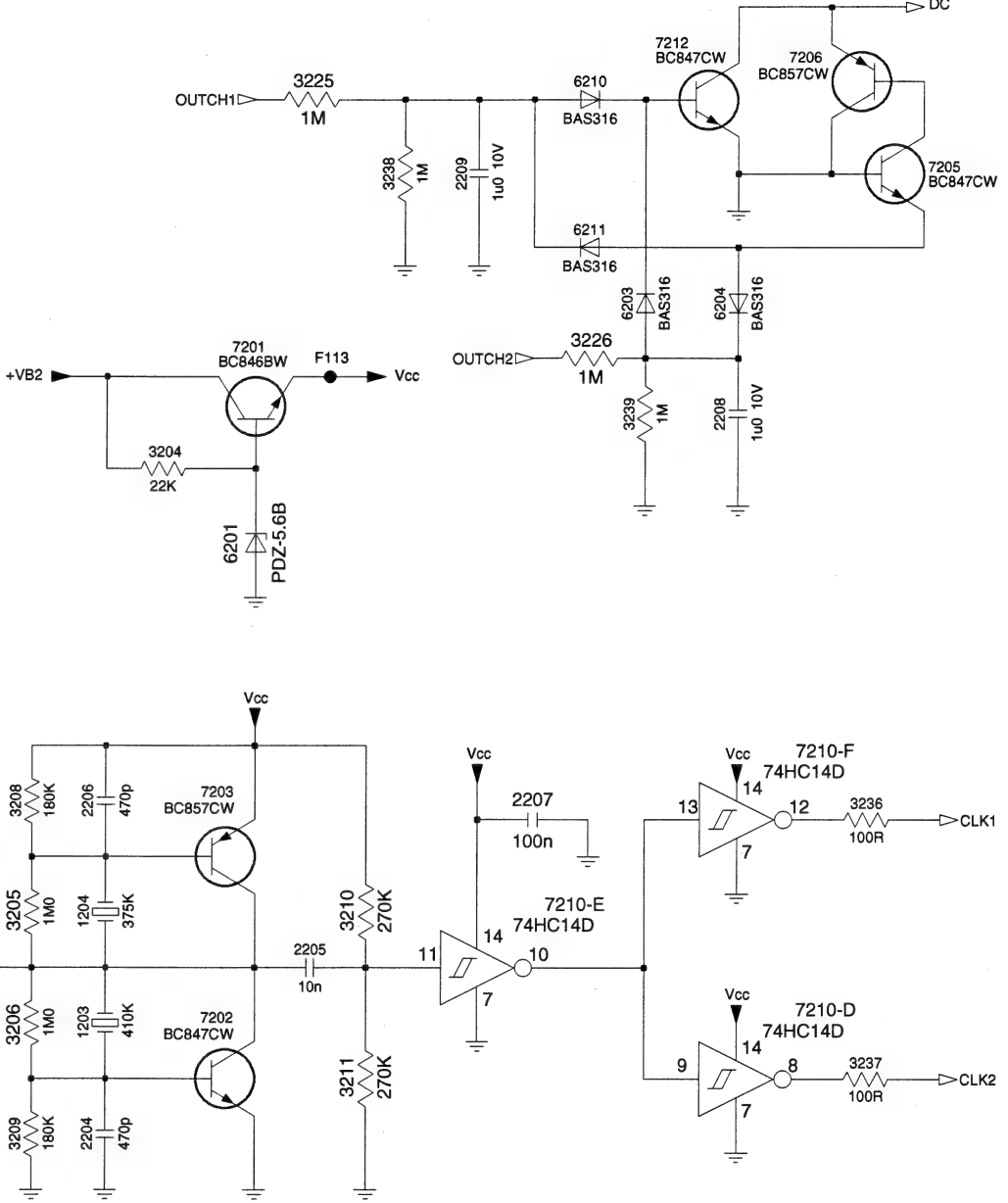
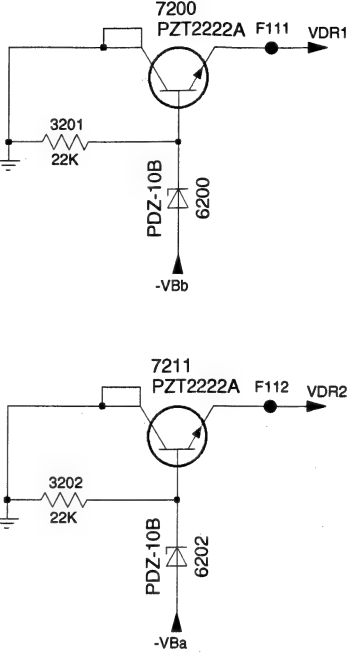
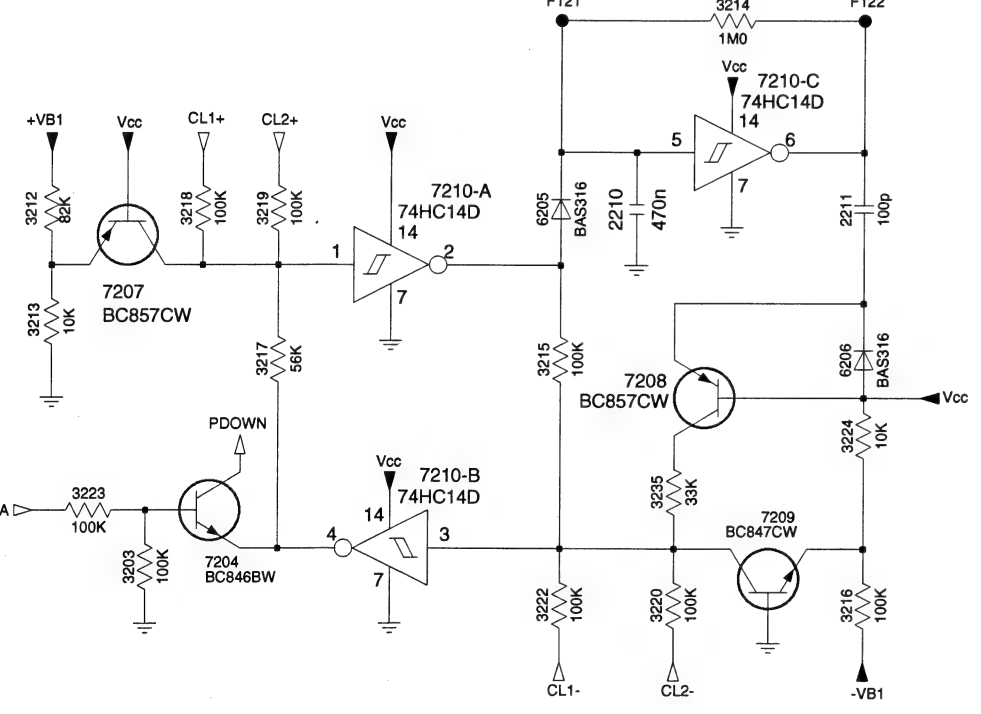
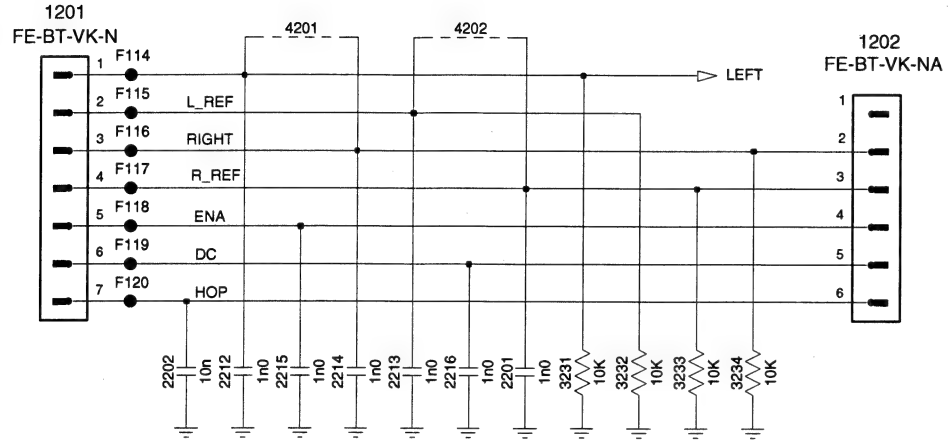
# 1 UCD AMPLIFIER

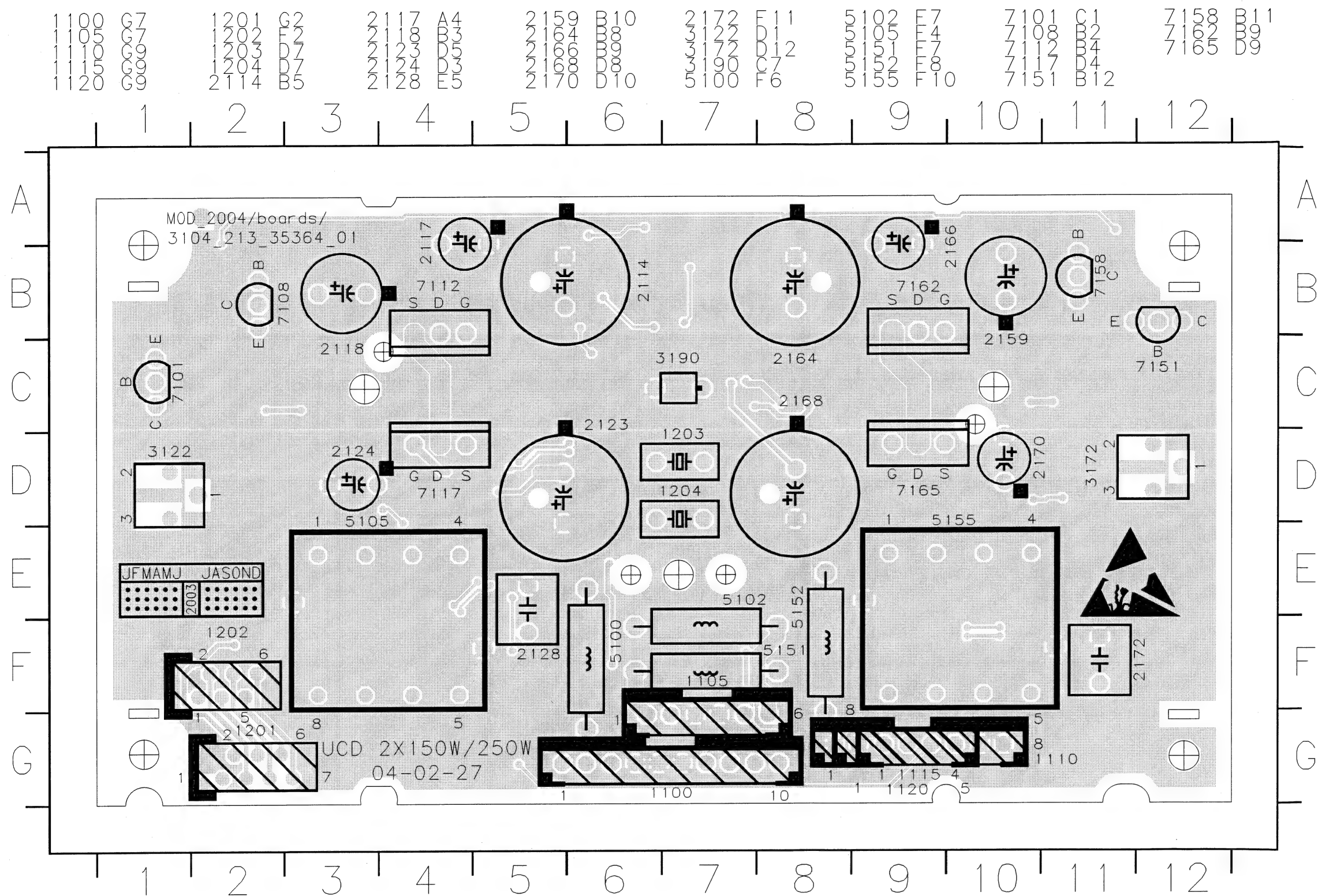


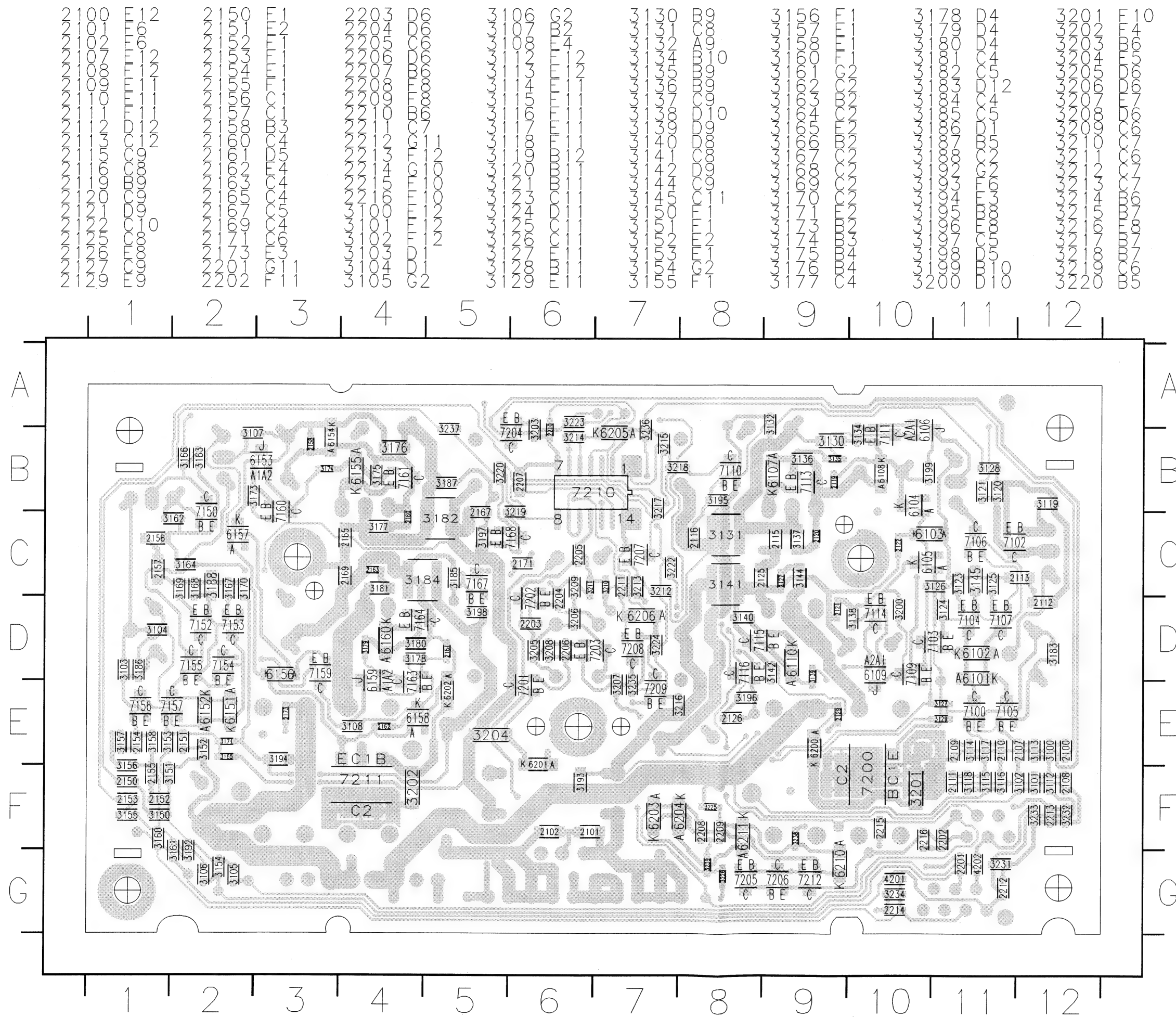
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2101 D1	3188 H4
2102 E1	3190 D1
2107 B3	3192 F2
2108 B5	3193 C11
2109 B2	3194 H12
2110 C3	3195 A11
2111 C3	3196 D11
2112 A4	3197 E11
2113 E4	3198 H1
2114 A8	3199 A7
2115 A10	3200 C7
2116 A11	5100 A9
2117 A10	5102 E9
2118 B7	5105 B12
2119 B7	5151 E9
2120 A10	5152 H8
2121 D7	5155 G12
2122 C8	6101 C5
2123 D9	6102 C4
2124 D10	6103 C7
2125 D10	6104 B7
2126 D10	6105 C7
2127 C10	6106 A8
2128 C12	6107 A9
2129 C12	6108 B8
2150 F2	6109 C8
2151 G3	6110 C9
2152 G3	6151 H4
2153 G2	6152 H5
2154 H3	6153 H8
2155 H3	6154 G8
2156 E4	6155 F9
2157 A4	6156 G7
2158 G7	6157 G7
2159 G7	6158 H7
2160 F10	6159 H8
2161 H7	6160 H9
2162 H6	7100 C4
2163 H10	7101 A5
2164 E9	7102 A4
2165 F10	7103 C4
2166 F10	7104 D4
2167 F10	7105 C6
2168 B9	7106 C5
2169 H0	7107 D6
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2171 H0	7109 C6
2172 G12	7110 A11
2173 G12	7111 A8
3100 A3	7112 A9
3101 A3	7113 B9
3102 A3	7114 C8
3103 G4	7115 C9
3104 G5	7116 D11
3105 G2	7117 C9
3106 G2	7150 F4
3107 F7	7151 F4
3108 H7	7152 H6
3112 B3	7153 H4
3113 B3	7154 H4
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3116 B3	7157 G6
3117 C3	7158 F6
3118 C3	7159 H6
3119 A4	7160 F8
3120 A5	7161 G9
3121 B5	7162 F9
3122 B4	7163 H8
3123 D4	7164 H9
3124 D5	7165 H9
3125 D6	7167 I11
3126 E6	7168 F11
3127 D6	F100 C1
3128 A6	F101 C1
3129 A6	F102 C1
3130 A7	F103 D12
3131 A10	F104 D12
3132 A10	F105 D12
3134 A7	F106 D1
3135 A8	F107 D11
3136 B9	F108 A11
3137 A10	F109 I11
3138 C7	F110 F11
3139 C8	
3140 D9	
3141 D10	
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3145 D4	
3150 F3	
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3153 G3	
3154 G2	
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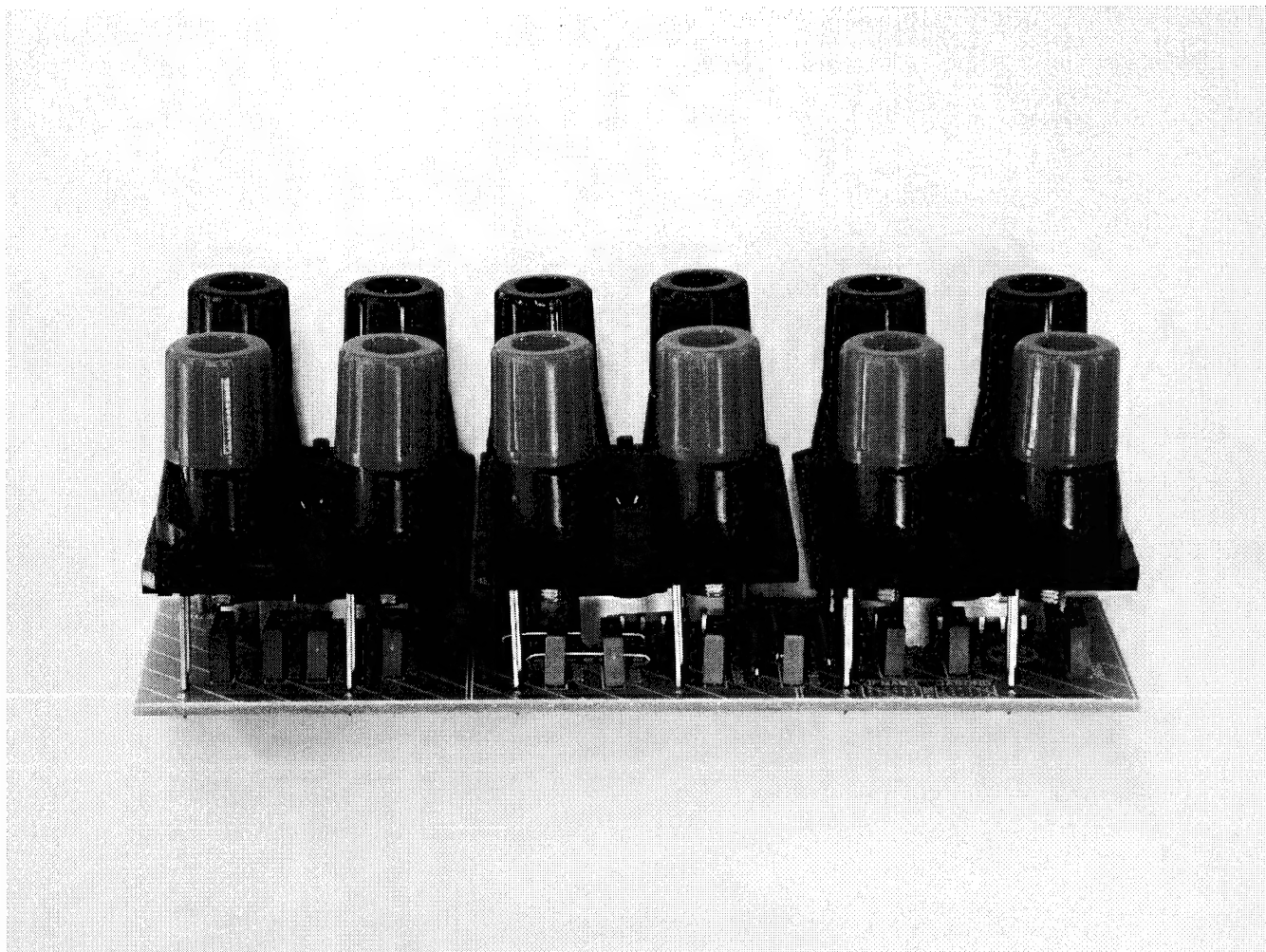
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1202 A4	2203 E6	2208 B9	2213 B2	3202 B4	3207 D5	3212 D1	3217 D1	3223 E1	3232 B3	3237 E9	6200 A5	6205 D2	7201 B7	7206 A9	7210-B E2	7211 B5	F114 A1	F119 A1
1203 E6	2204 E6	2209 A8	2214 B2	3203 E1	3208 D6	3213 D1	3218 D1	3224 D4	3233 B3	3238 A7	6201 C7	6206 D4	7202 E7	7207 D1	7210-C C3	7212 A8	F115 A1	F120 A1
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2 UCD AMPLIFIER





[illegible][illegible]



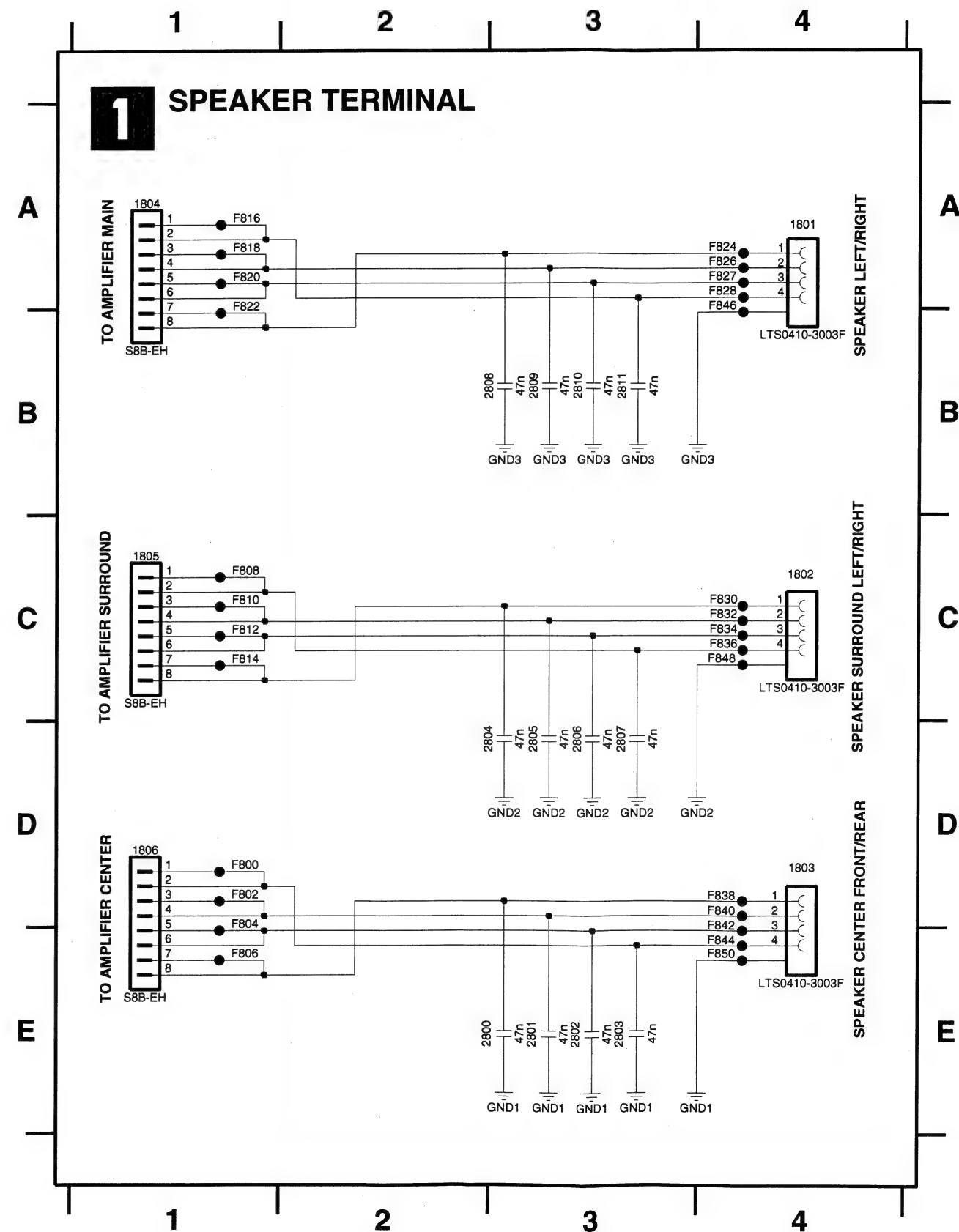
# Speaker Terminal

This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.

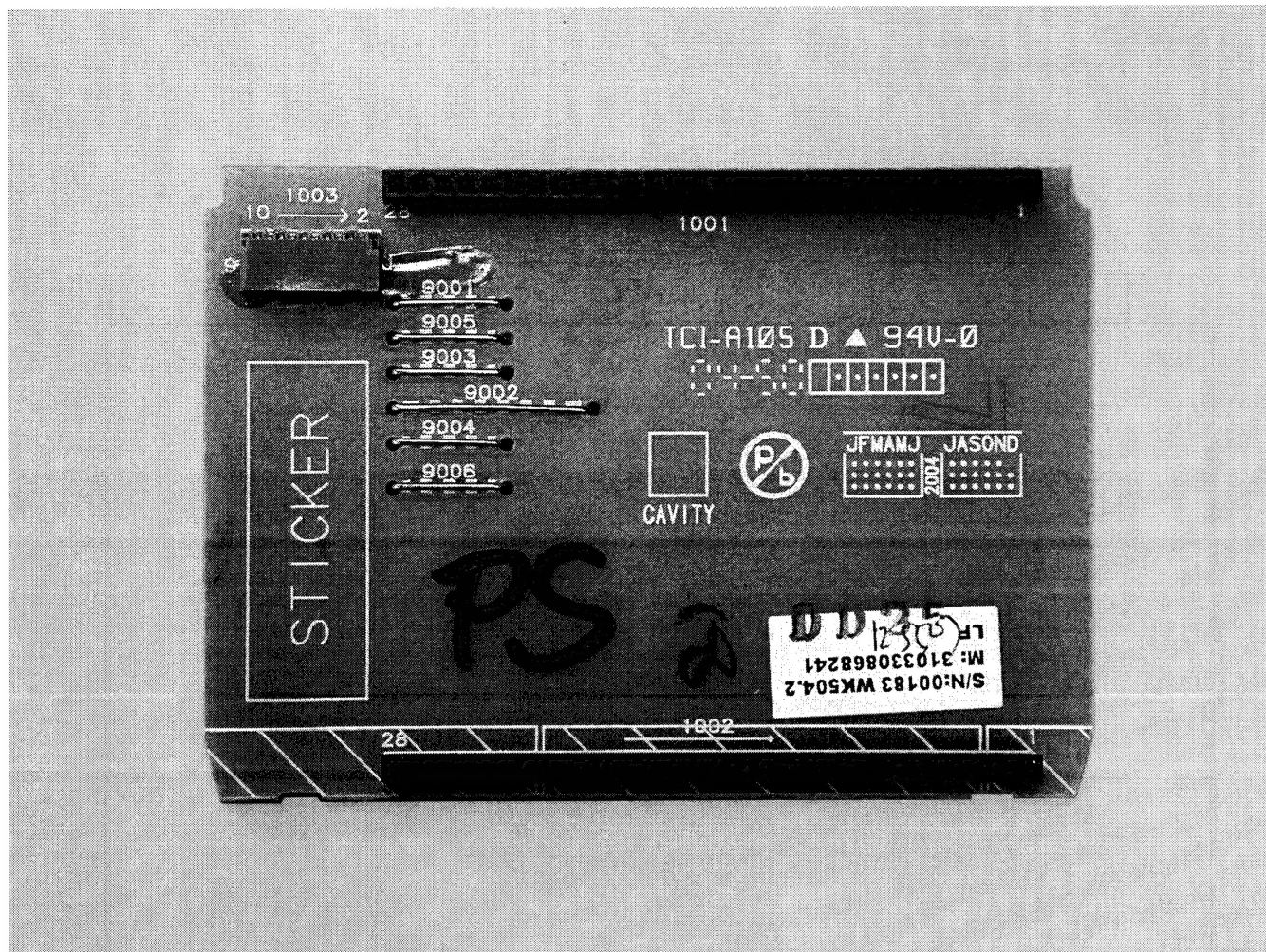
In case of defects please replace the entire board.

Boards can be ordered with codenumber "9965 000 26725".

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1802 C4	2800 E2	2805 D3	2810 B3	F806 E1	F816 A1	F826 A4	F834 C4	F844 E4
1803 D4	2801 E3	2806 D3	2811 B3	F808 C1	F818 A1	F827 A4	F836 C4	F846 B4
1804 A1	2802 E3	2807 D3	F800 D1	F810 C1	F820 A1	F828 A4	F838 D4	F848 C4
1805 C1	2803 E3	2808 B2	F802 D1	F812 C1	F822 B1	F830 C4	F840 D4	F850 E4



18	01	B2
18	02	F2
18	03	F2
18	04	F1
18	05	F1
18	06	B1
18	00	H2
22	01	I3
22	02	I3
22	03	I3
22	04	H2
22	05	F3
22	06	F3
22	07	F3
22	08	C2
22	09	A2
22	10	D3
22	11	B2
22	00	D2
99	01	D2
99	02	D1
99	03	D2
99	04	F2
99	05	F2
99	06	F2



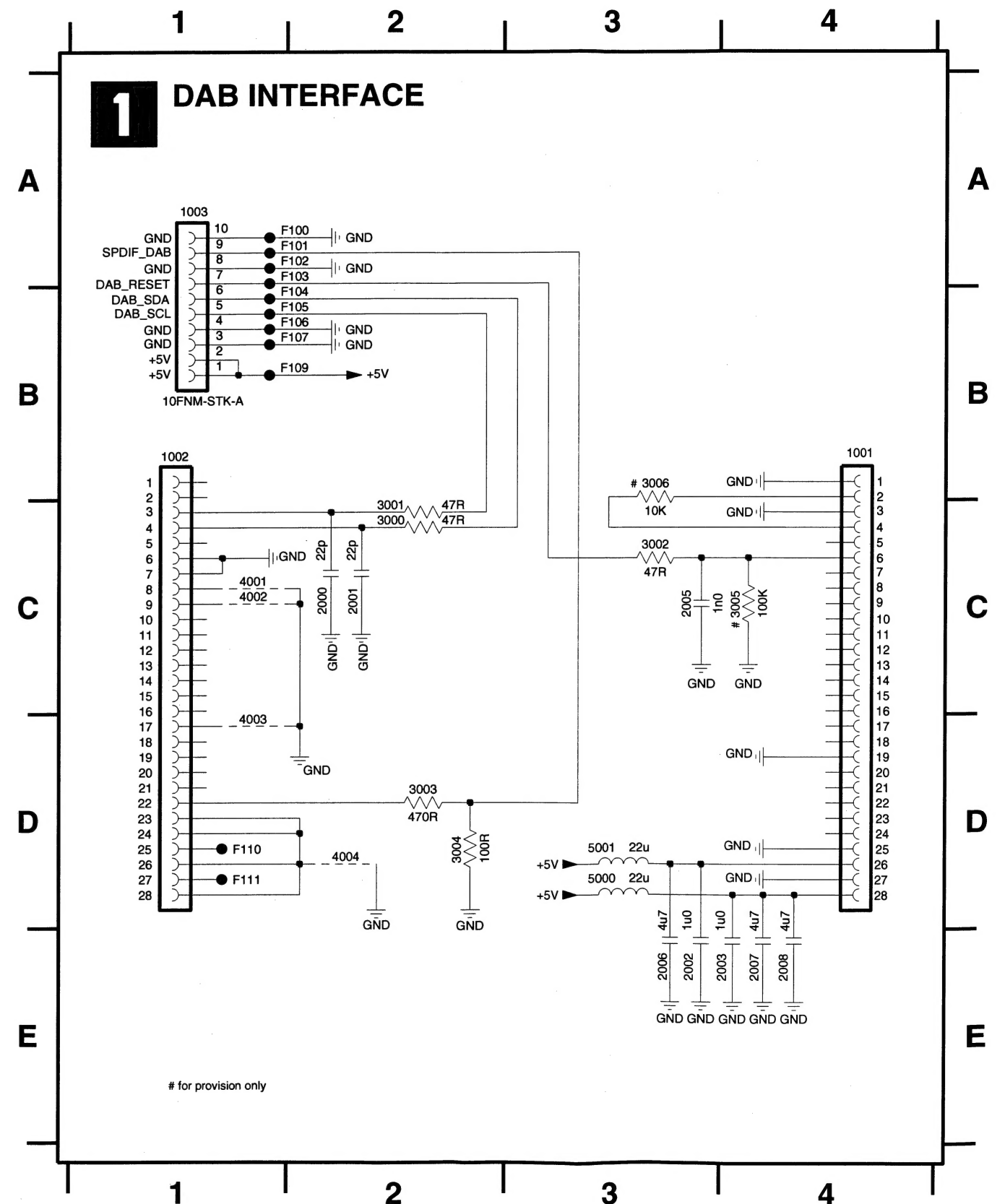
## DAB Interface

This board is not intended to be repaired on component level.  
Circuit Diagrams and Printed Circuit Board drawings  
are published for orientation only.

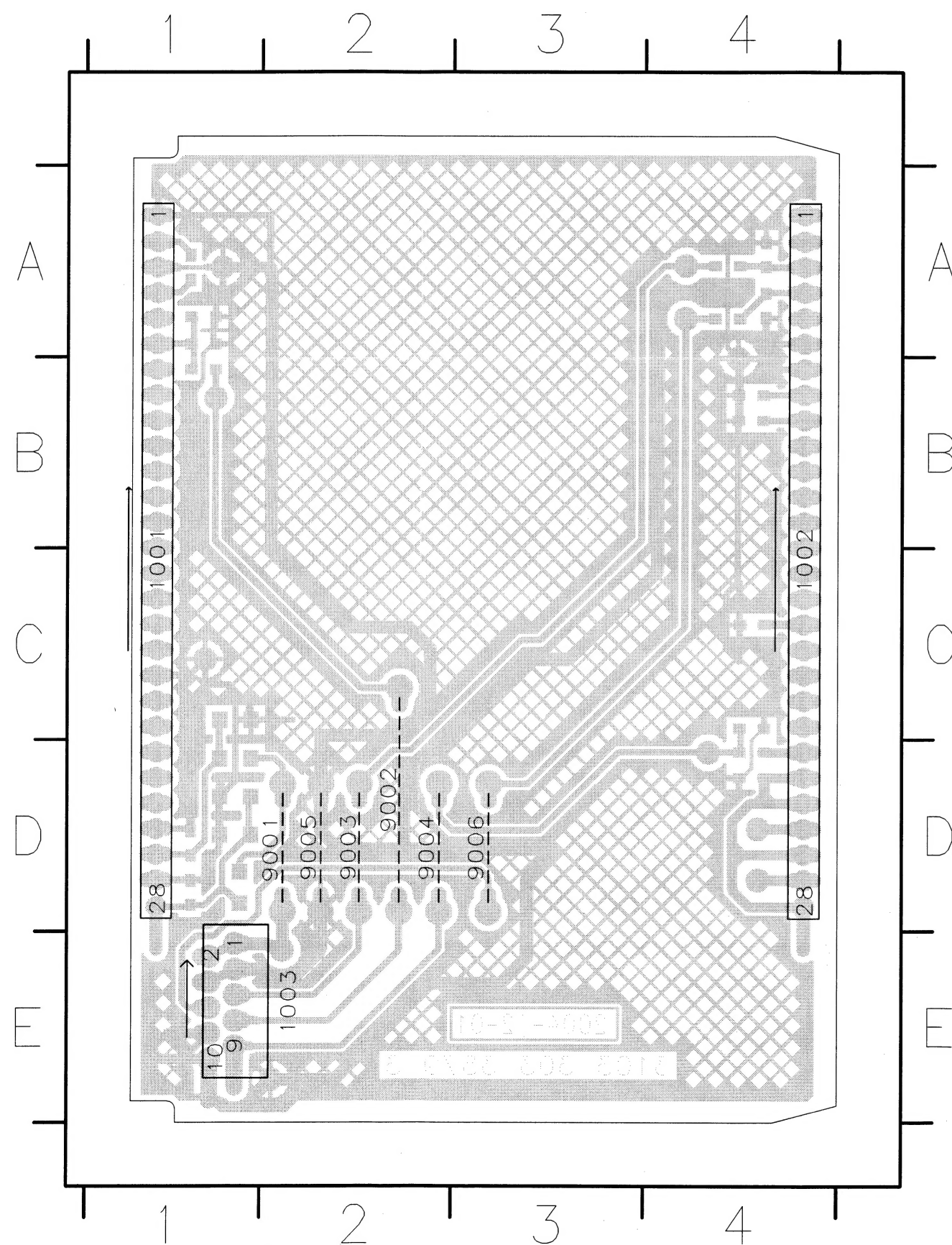
In case of defects please replace the entire board.

Boards can be ordered with codenumber "9965 000 26726".

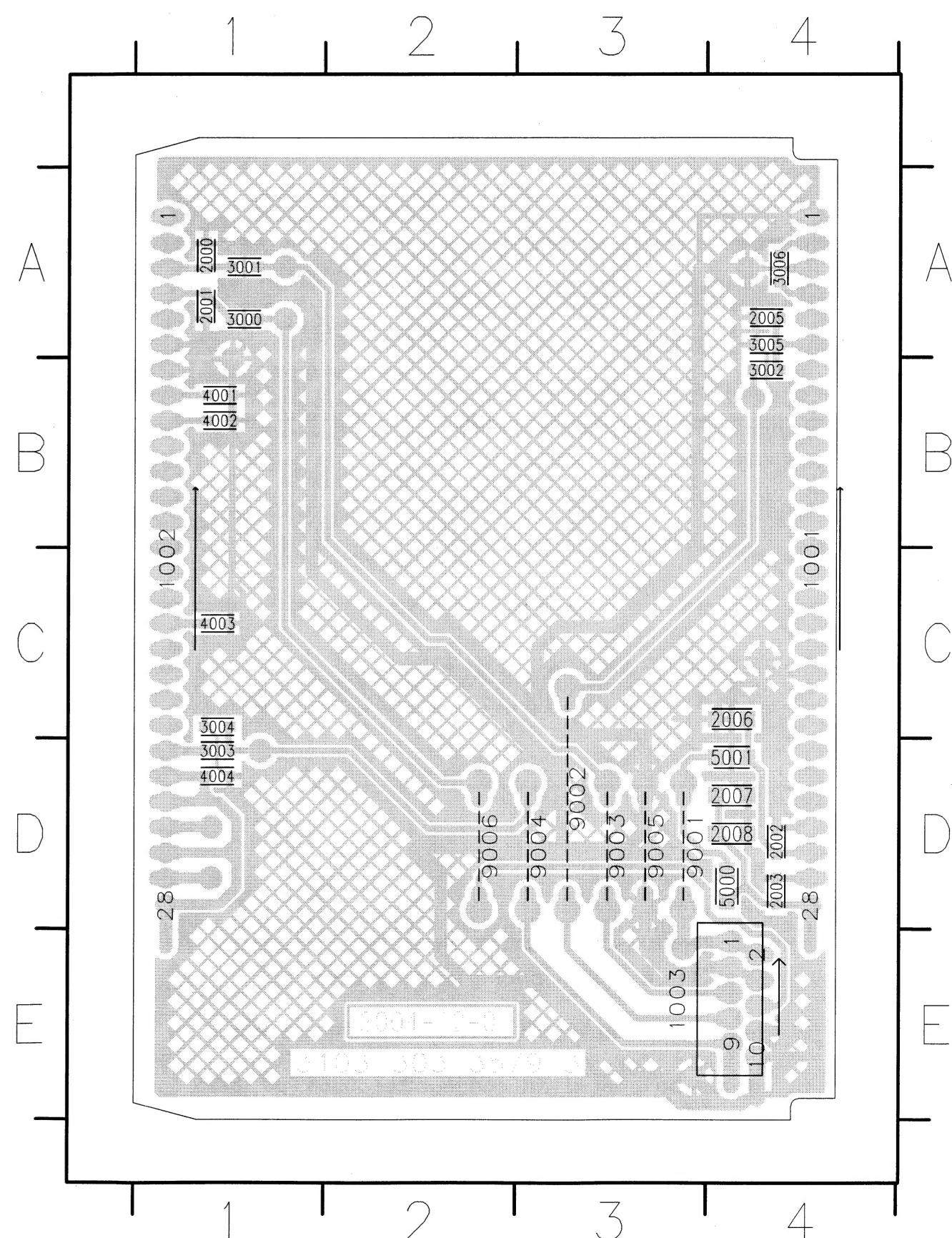
1001 B4	2001 C2	2006 E3	3001 C2	3005 C4	4003 D1	F100 A2	F104 B2	F109 B2
1002 B1	2002 E3	2007 E4	3002 C3	3006 B3	4004 D2	F101 A2	F105 B2	F110 D1
1003 A1	2003 E3	2008 E4	3003 D2	4001 C1	5000 D3	F102 A2	F106 B2	F111 D1
2000 C2	2005 C3	3000 C2	3004 D2	4002 C1	5001 D3	F103 A2	F107 B2	



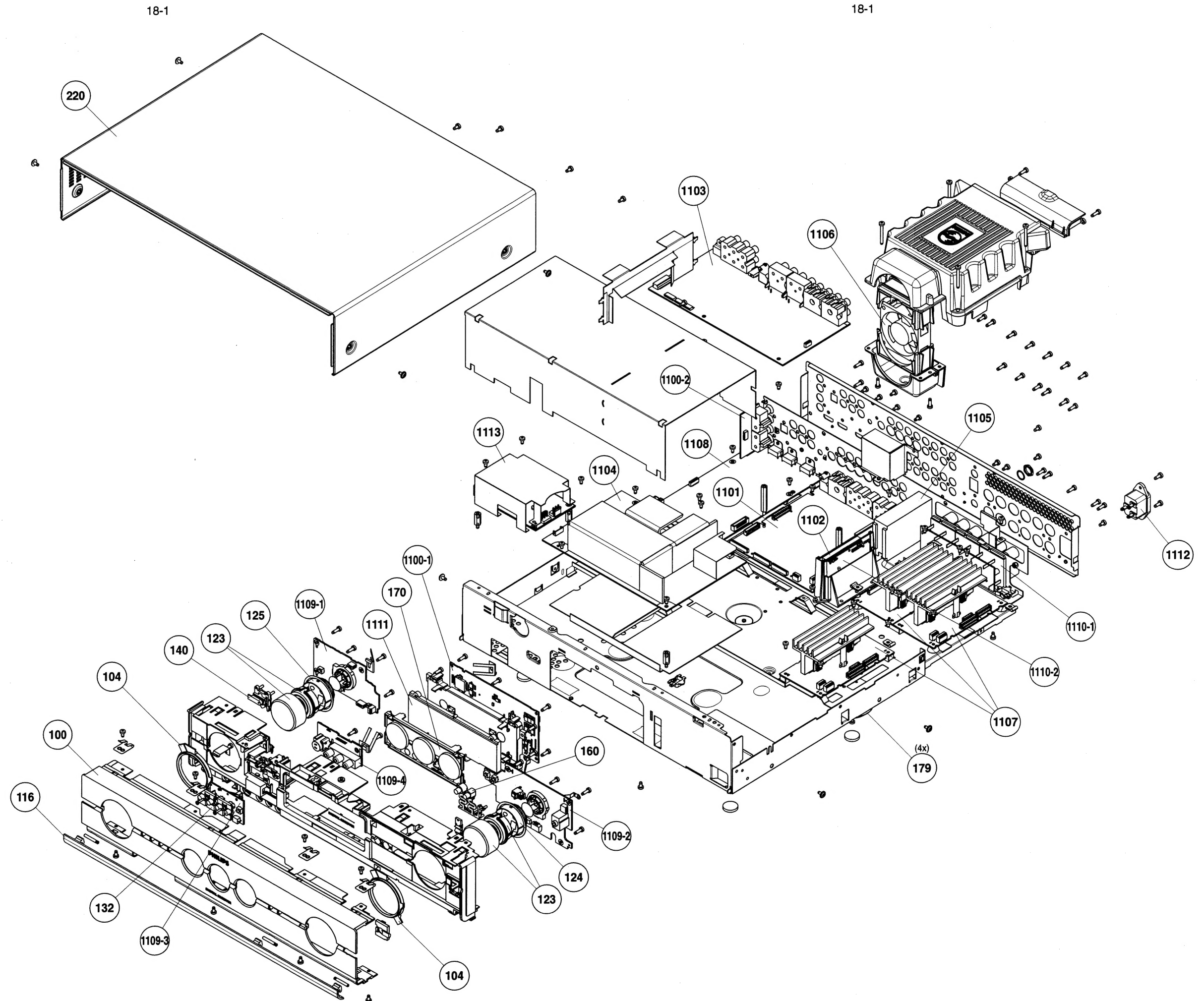
1001 C1 1003 E2 9002 D2 9004 D2 9006 D3  
 1002 C4 9001 D2 9003 D2 9005 D2



2000 A1 2006 C4 3002 B4 4001 B1 5001 D4  
 2001 A1 2007 D4 3003 D1 4002 B1  
 2002 D4 2008 D4 3004 C1 4003 C1  
 2003 D4 3000 A1 3005 A4 4004 D1  
 2005 A4 3001 A1 3006 A4 5000 D4



# EXPLODED VIEW



## PARTSLIST

100	3103 308 16471	FRONT-ALU-PRI DFR9000/01
104	3103 308 13861	RING-CHROMIUM
116	3103 308 16481	DOOR-ALU-PRI
123	3103 308 13661	KNOB ROTARY ASSY
124	3103 304 73692	LIGHT-GUIDE-RING
125	3103 304 75541	LIGHT-GUIDE-RING-SOURCE
132	3103 308 16491	BUTTON-SET-LEFT-ASSY
140	3103 308 13821	BUTTON-STANDBY-ASSY
160	3103 308 16511	BUTTON-SET-RIGHT-ASSY
170	3103 304 77581	LENS DFR9000
179	3103 304 74191	FEET LX9000R
220	3103 308 16611	COVER-TOP-LAC DFR9000
1100-1	9965 000 26719	PBAS FRONT-CONTROL
1100-2	9965 000 26720	PBAS DIGITAL-I/O
1101	3103 308 68221	PBAS ASP
1102	3103 308 55921	DAB TUNER GYRO 1115 SLAVE
1103	3103 308 68181	PBAS VIDEO IO
1104	3103 308 55991	POWER SUPPLY AC6750
1105	2422 542 90137	AM/FM TUNER ENG07703Q EUR B
1106	3103 308 55901	FAN KDE1206PKV3 / 470MM
1107	3139 118 58631	UCD AMPLIFIER DFR9000
1108	3103 608 51512	PBAS VPB PAL
1109-1	9965 000 26721	PBAS FRONT-LEFT
1109-2	9965 000 26722	PBAS FRONT-RIGHT
1109-3	9965 000 26723	PBAS KEY
1109-4	9965 000 26724	PBAS FRONT-I/O
1110-1	9965 000 26725	PBAS SPEAKER TERMINAL
1110-2	9965 000 26726	PBAS DAB INTERFACE
1111	3103 308 55861	LCD 5434FGPWTNH
1112	2422 030 00408	MAINS SOCKET
1113	3103 308 68331	PBAS STANDBY POWER SUPPLY
8000	3103 308 94811	FFC 14/170/14 AD 1MMP
8001	3103 308 93341	FFC 3/60/3 BD 1,25MMP
8002	3103 308 94571	FFC 14/140/14 AD 1MMP
8003	3103 308 94601	FFC 22/280/22 AD 1MMP
8004	3103 308 94611	FFC 24/280/24 AD 1MMP
8005	3103 308 94542	FFC 12/320/12 AD 1MMP
8006	3103 308 94652	FFC 4/480/4 AD 1,25MMP
8007	3103 308 94662	FFC 7/140/7 AD 1,25MMP
8008	3103 308 94671	FFC 7/280/7 AD 1,25MMP
8009	3103 308 94681	FFC 7/420/7 AD 1,25MMP
8010	3103 308 94821	FFC 11/90/11 AD 1.25MMP
8011	3103 308 94502	FFC 10/380/10 AD 1MMP
8012	3103 308 94622	FFC 25/150/25 AD 1MMP
8013	3103 308 94531	FFC 12/110/12 BD 1MMP
8014	3103 308 94581	FFC 22/110/22 BD 1MMP
8015	3103 308 94472	FFC 7/80/7 AD 1MMP
8016	3103 308 94481	FFC 9/120/9 BD 1MMP
8017	3103 601 00311	CBLE KR 9P/380/9P KR SLD UL
8019	3103 308 94752	CBLE HR 10/380/10 HR BK
8020	3103 308 94691	CBLE PH 12/60/12 PH BK
8021	3103 308 94772	CBLE EH 10/440/10 EH BK AWG22
8022	3103 308 94702	CBLE EH 6/320/6 EH BU AWG22
8023	3103 308 94712	CBLE EH 10/360/10 EH BU AWG22
8024	3103 308 94732	CBLE EH 8/240/8 EH BU AWG24
8025	3103 308 94722	CBLE EH 8/200/8 EH BU AWG24
8026	3103 308 94742	CBLE EH 8/380/8 EH BU AWG24
8028	3103 308 94831	CBLE VH 2/650/2 VH BU/BN
8029	3103 308 95061	CBLE VH 2/300/2 VH BU/BN
8030	3103 308 95071	CBLE EH 5/200/5 EH AWG26

→ For accessories see chapter 1-4

## REVISION LIST

Service Manual 3103 785 25290 – Version 1.0

• Initial release